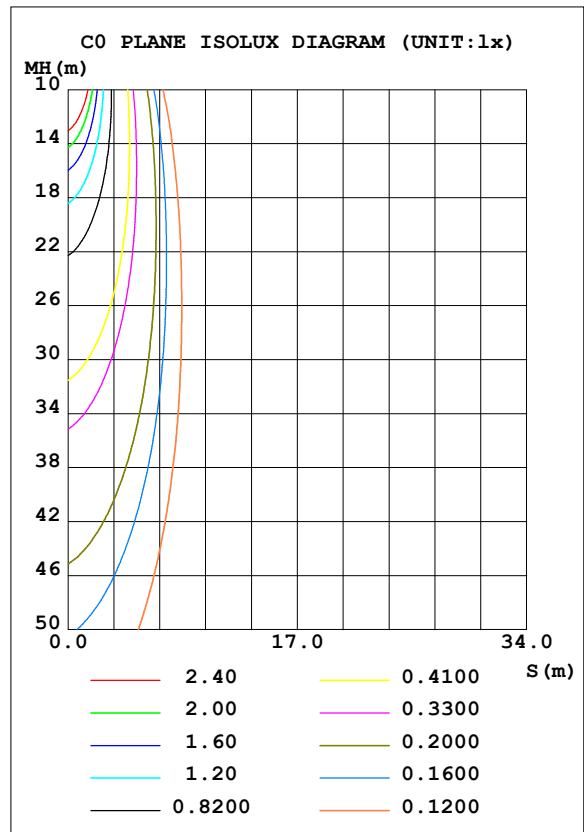
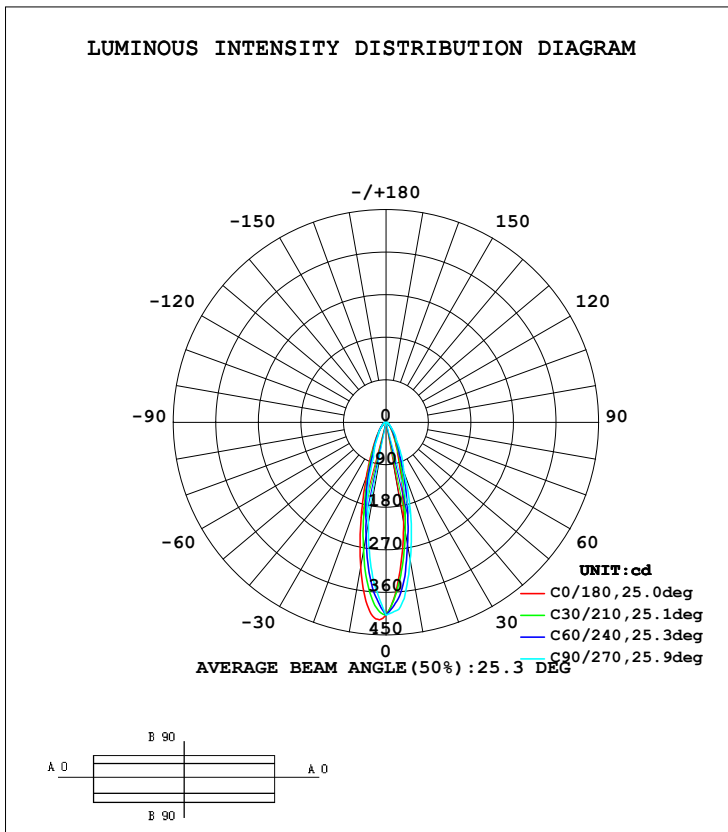


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC. :	DIM. :	SERIAL No. :2021081404
	SUR. :0.052	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	REL21-1/REL22-1/REL23-1 Single Head	I _{max} (cd)	417.8	S/MH (C0/180)	0.50
NOMINAL POWER (W)	1.5W	LOR (%)	100.0	S/MH (C90/270)	0.36
RATED VOLTAGE (V)	4	TOTAL FLUX (lm)	149.95	η UP, DN (C0-180)	0.0, 53.1
NOMINAL FLUX (lm)	149.946	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	4	η down (%)	100.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: WLM
 Test Date: 2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 13.693m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	325.8	348.0	385.6	403.3	401.4	357.3	327.1	310.0	0- 5	9.018	9.018	6.01,6.01
10	215.3	248.3	295.6	320.0	310.7	261.3	218.2	202.2	5- 10	21.72	30.74	20.5,20.5
15	128.5	157.2	202.6	211.2	202.4	167.1	148.5	120.1	10- 15	24.63	55.37	36.9,36.9
20	76.80	95.26	109.7	129.4	121.9	106.5	78.88	74.39	15- 20	21.39	76.76	51.2,51.2
25	48.33	58.52	77.02	77.01	74.54	65.20	56.96	46.74	20- 25	16.42	93.18	62.1,62.1
30	32.20	38.47	44.39	49.61	47.94	43.22	35.03	31.66	25- 30	12.83	106.0	70.7,70.7
35	22.08	26.16	34.31	33.43	32.24	30.13	27.84	22.19	30- 35	9.926	115.9	77.3,77.3
40	15.55	17.87	24.23	22.45	22.27	20.91	20.66	15.57	35- 40	7.979	123.9	82.6,82.6
45	11.25	13.07	14.88	16.23	15.64	15.62	13.98	11.77	40- 45	6.248	130.2	86.8,86.8
50	8.250	9.511	11.35	11.48	11.21	11.38	11.42	8.722	45- 50	4.810	135.0	90,90
55	6.218	6.954	8.546	8.051	8.230	8.222	9.372	6.452	50- 55	3.890	138.9	92.6,92.6
60	4.627	5.376	5.744	6.252	6.182	6.642	7.323	5.233	55- 60	3.159	142.0	94.7,94.7
65	3.369	4.044	4.486	4.742	4.656	5.301	5.692	4.157	60- 65	2.524	144.6	96.4,96.4
70	2.227	2.847	3.229	3.507	3.423	4.162	4.060	3.116	65- 70	1.975	146.5	97.7,97.7
75	0.8560	1.653	2.468	2.500	2.387	3.165	3.189	2.031	70- 75	1.453	148.0	98.7,98.7
80	0.1392	1.050	1.707	1.741	1.488	2.239	2.318	1.382	75- 80	1.002	149.0	99.4,99.4
85	0.0577	0.5525	0.9457	1.029	0.7377	1.352	1.447	0.8146	80- 85	0.6383	149.6	99.8,99.8
90	0.0461	0.0692	0.1845	0.3229	0.0346	0.4844	0.5767	0.2653	85- 90	0.3272	149.9	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

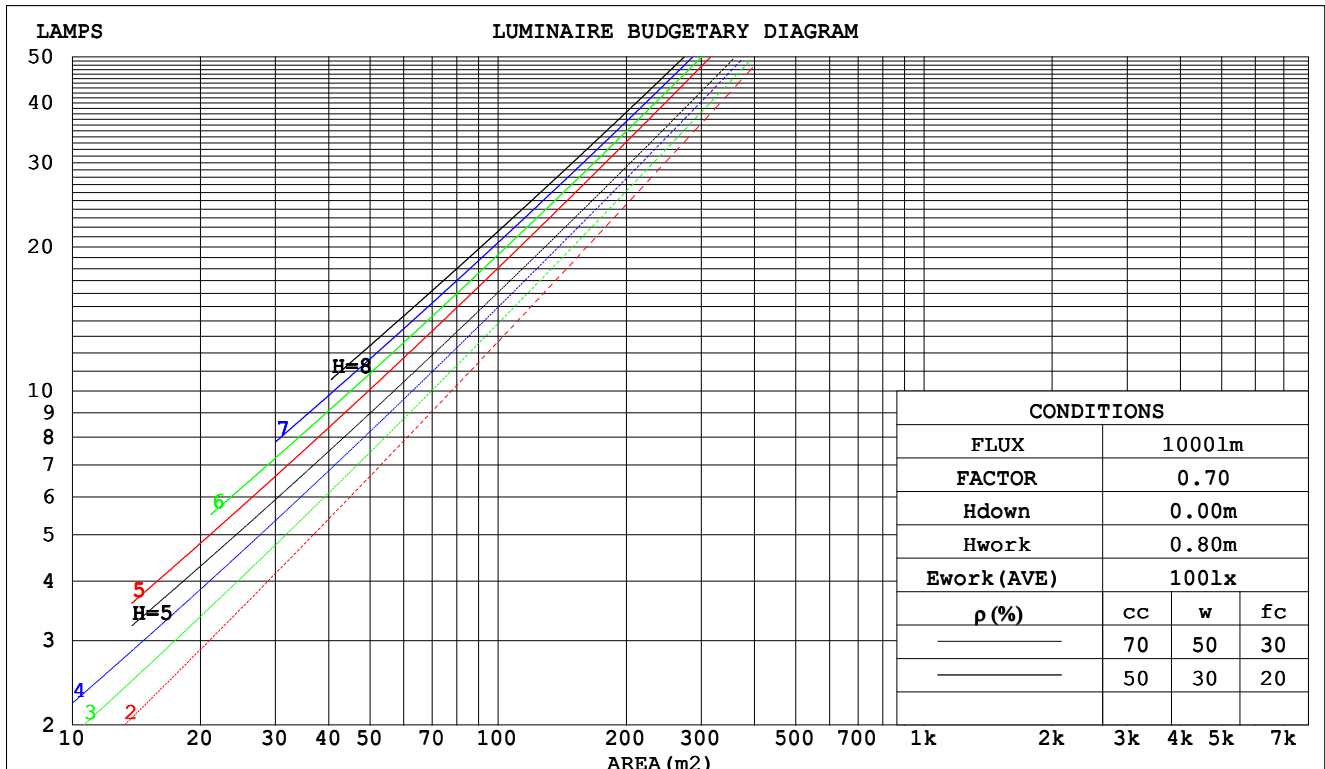
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WLM
Test Date:2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081404
	SUR.:0.052	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1.00	1.00	.98	.97	.97	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.85	.82	.86	.84	.81	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.84	.78	.74	.83	.78	.73	.81	.76	.73	.80	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.69	.79	.73	.69	.77	.72	.68	.76	.71	.68	.74	.71	.68	.66
7.0	.75	.69	.65	.75	.69	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.63
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.60
9.0	.68	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.58	.65	.61	.58	.57
10.0	.65	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.63	.59	.56	.55



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081404
	SUR.:0.052	PROTECTION ANGLE:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_{W}	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.193	.110	.035	.186	.106	.034	.173	.099	.032	.162	.093	.030	.151	.087	.028	
2.0	.181	.099	.030	.175	.096	.030	.164	.091	.028	.155	.087	.027	.146	.082	.026	
3.0	.169	.090	.027	.164	.088	.026	.155	.084	.026	.147	.080	.025	.139	.077	.024	
4.0	.158	.082	.024	.154	.081	.024	.146	.078	.023	.139	.075	.023	.132	.072	.022	
5.0	.149	.076	.022	.145	.074	.022	.138	.072	.021	.132	.070	.021	.126	.067	.020	
6.0	.140	.070	.020	.137	.069	.020	.131	.067	.020	.125	.065	.019	.120	.063	.019	
7.0	.132	.065	.019	.129	.064	.018	.124	.063	.018	.119	.061	.018	.115	.060	.017	
8.0	.125	.061	.017	.123	.060	.017	.118	.059	.017	.114	.058	.017	.110	.056	.016	
9.0	.119	.058	.016	.117	.057	.016	.113	.056	.016	.109	.054	.016	.105	.053	.015	
10.0	.113	.054	.015	.111	.054	.015	.108	.053	.015	.104	.052	.015	.101	.051	.015	

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_{W}	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.111	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.101	.068	.043	.070	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.090	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.098	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

NAME: REL21-1 / REL22-1 / REL23-1 Single Head						TYPE:					WEIGHT:				
SPEC.:						DIM.:					SERIAL No.:2021081404				
						SUR.:0.052					PROTECTION ANGLE:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions						Viewed crosswise					Viewed endwise				
x = 2H y = 2H	14.8	15.7	15.0	15.9	16.1	16.2	17.2	16.5	17.3	17.5	16.2	17.2	16.5	17.3	17.5
3H	15.4	16.3	15.7	16.5	16.7	17.0	17.8	17.2	18.0	18.2	17.0	17.8	17.2	18.0	18.2
4H	15.5	16.3	15.8	16.5	16.8	17.3	18.1	17.6	18.4	18.6	17.3	18.1	17.6	18.4	18.6
6H	15.4	16.2	15.7	16.4	16.7	17.7	18.5	18.0	18.7	19.0	17.7	18.5	18.0	18.7	19.0
8H	15.4	16.1	15.7	16.4	16.6	17.8	18.6	18.1	18.8	19.1	17.8	18.6	18.1	18.8	19.1
12H	15.3	16.0	15.6	16.3	16.6	18.0	18.7	18.3	19.0	19.2	18.0	18.7	18.3	19.0	19.2
4H 2H	15.2	16.0	15.4	16.2	16.4	16.4	17.3	16.7	17.5	17.7	16.4	17.3	16.7	17.5	17.7
3H	15.9	16.7	16.3	16.9	17.2	17.3	18.0	17.6	18.3	18.6	17.3	18.0	17.6	18.3	18.6
4H	16.1	16.7	16.4	17.0	17.4	17.8	18.5	18.1	18.8	19.1	17.8	18.5	18.1	18.8	19.1
6H	16.0	16.6	16.4	16.9	17.3	18.3	18.9	18.7	19.2	19.6	18.3	18.9	18.7	19.2	19.6
8H	16.0	16.5	16.4	16.9	17.2	18.5	19.1	18.9	19.4	19.8	18.5	19.1	18.9	19.4	19.8
12H	15.9	16.4	16.3	16.8	17.2	18.7	19.2	19.1	19.6	20.0	18.7	19.2	19.1	19.6	20.0
8H 4H	16.2	16.8	16.6	17.1	17.5	17.8	18.4	18.2	18.7	19.1	17.8	18.4	18.2	18.7	19.1
6H	16.2	16.6	16.6	17.0	17.4	18.5	18.9	18.9	19.3	19.7	18.5	18.9	18.9	19.3	19.7
8H	16.1	16.5	16.6	16.9	17.4	18.8	19.2	19.2	19.6	20.0	18.8	19.2	19.2	19.6	20.0
12H	16.1	16.4	16.5	16.9	17.3	19.1	19.4	19.6	19.9	20.4	19.1	19.4	19.6	19.9	20.4
12H 4H	16.2	16.7	16.6	17.1	17.5	17.8	18.3	18.2	18.7	19.1	17.8	18.3	18.2	18.7	19.1
6H	16.2	16.6	16.7	17.0	17.5	18.4	18.8	18.9	19.3	19.7	18.4	18.8	18.9	19.3	19.7
8H	16.2	16.5	16.7	17.0	17.4	18.8	19.1	19.3	19.6	20.1	18.8	19.1	19.3	19.6	20.1
Variations with the observer position at spacings:															
S = 1.0H	+ 0.7 / - 1.0					+ 0.6 / - 0.6									
1.5H	+ 0.7 / - 0.6					+ 1.3 / - 0.5									
2.0H	+ 1.1 / - 1.0					+ 0.9 / - 0.7									

CIE Pub.117 Corrected 149.9 lm Total Lamp Luminous Flux. (8log(F/F0) = -6.6)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WLM
Test Date:2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081404
	SUR.:0.052	PROTECTION ANGLE:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	73	69	80	73	69	79	73	69	64
0.80	89	82	77	88	81	77	87	81	77	72
1.00	94	87	83	93	87	83	92	87	82	78
1.25	99	92	88	98	92	88	96	91	87	82
1.50	102	96	92	101	95	92	98	94	90	85
2.00	106	100	97	104	99	96	101	97	94	89
2.50	108	103	99	106	102	99	103	99	97	90
3.00	110	106	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	108	111	109	107	107	105	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

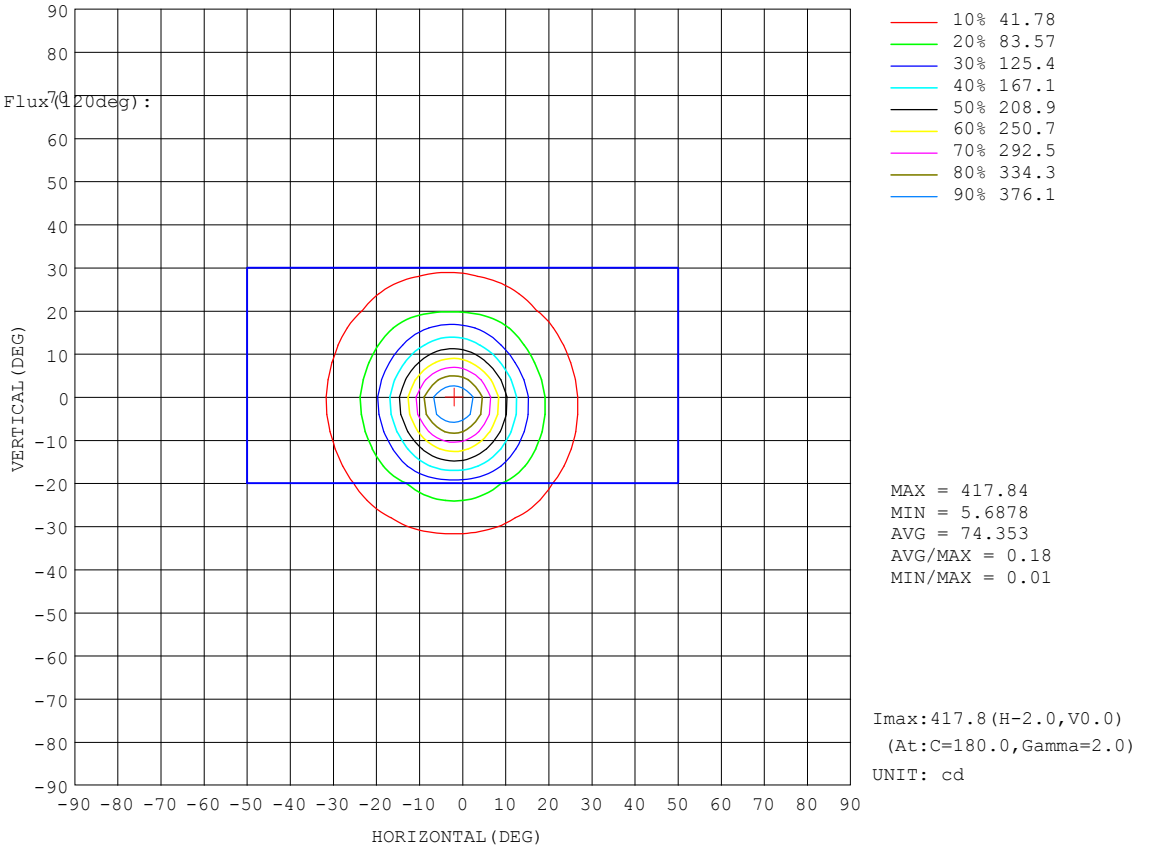
NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081404
	SUR.:0.052	PROTECTION ANGLE:

Conical surface Flux(90deg):

130.17 lm
 %lum = 86.8%
 %lamp = 86.8%

Conical surface Flux(70deg):

142.03 lm
 %lum = 94.7%
 %lamp = 94.7%

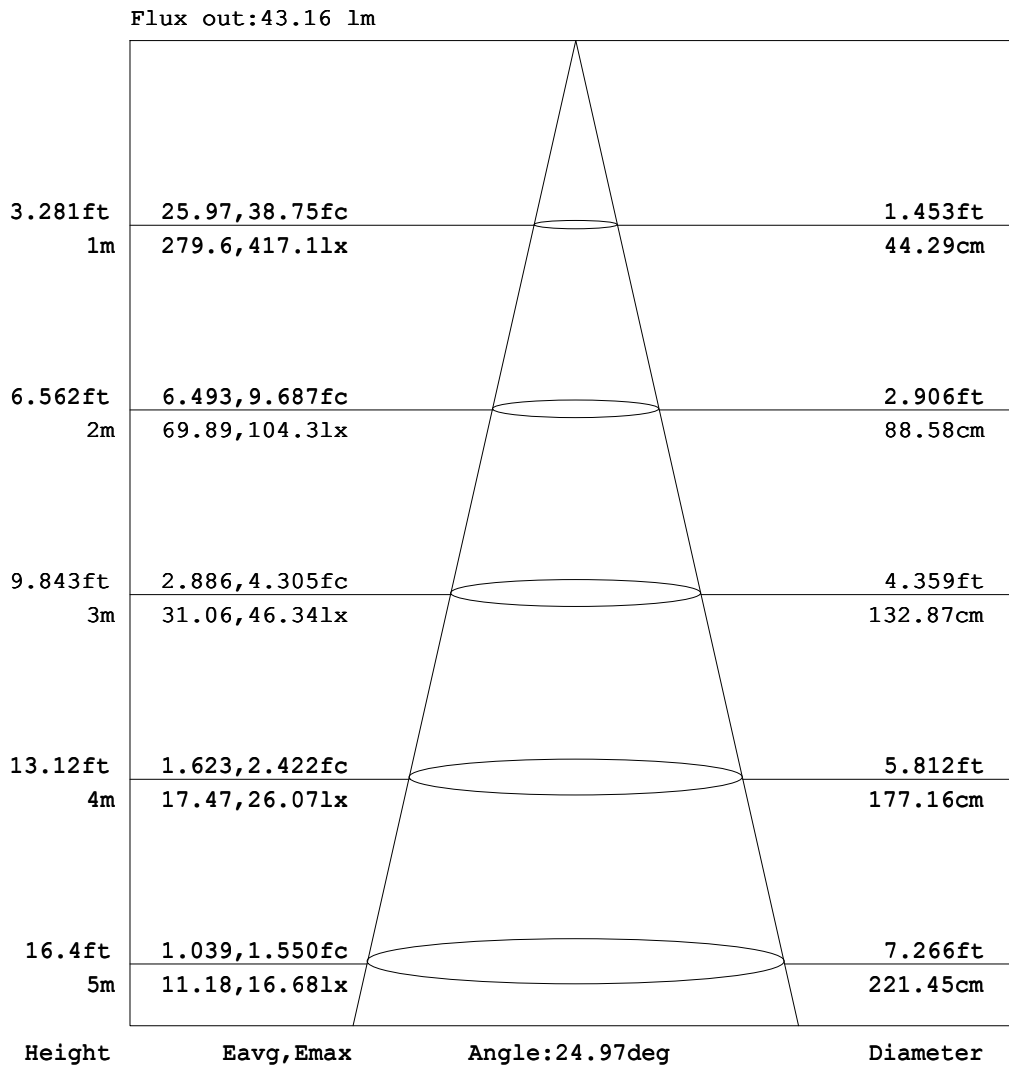


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

AAI Figure

NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081404
	SUR.:0.052	PROTECTION ANGLE:



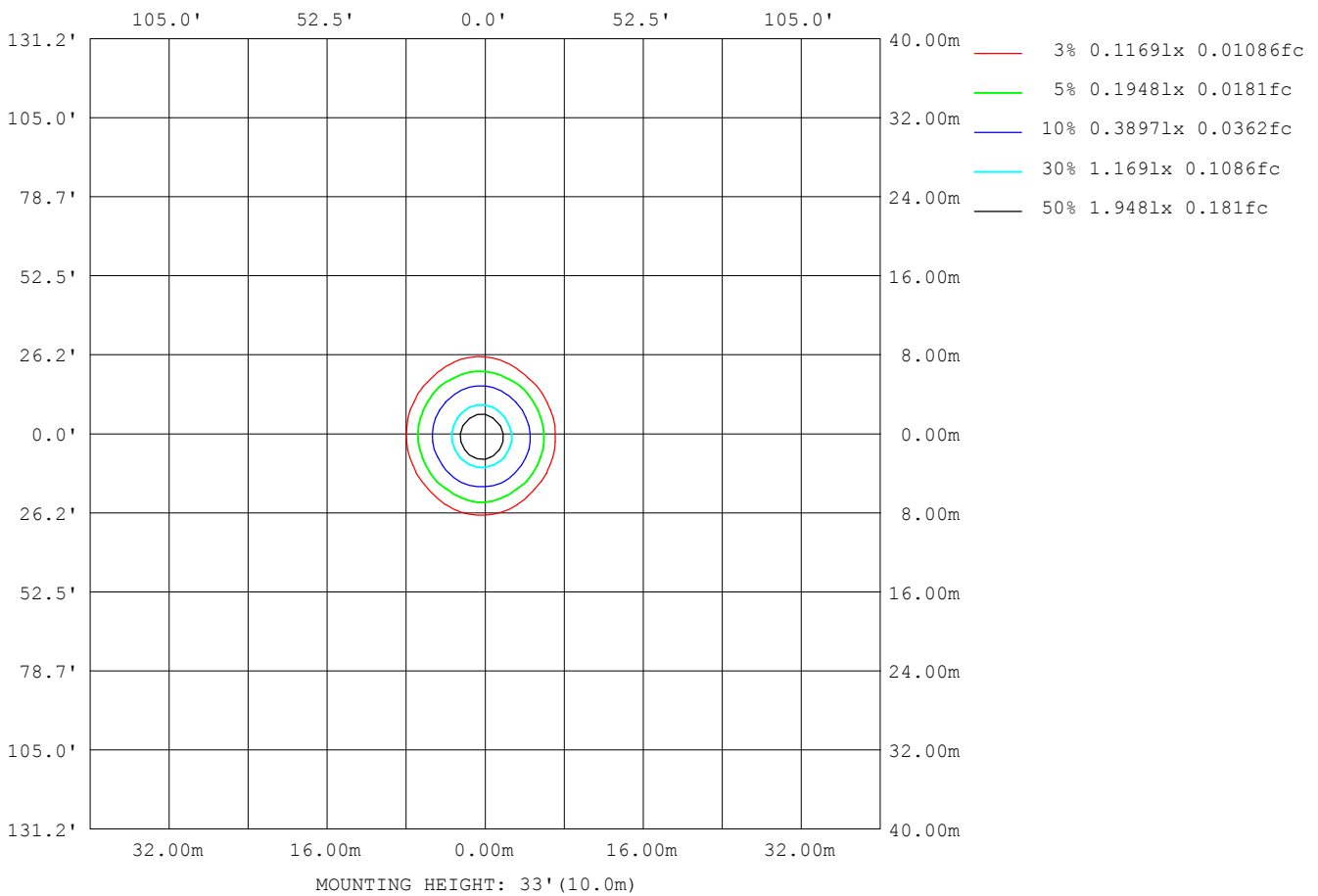
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

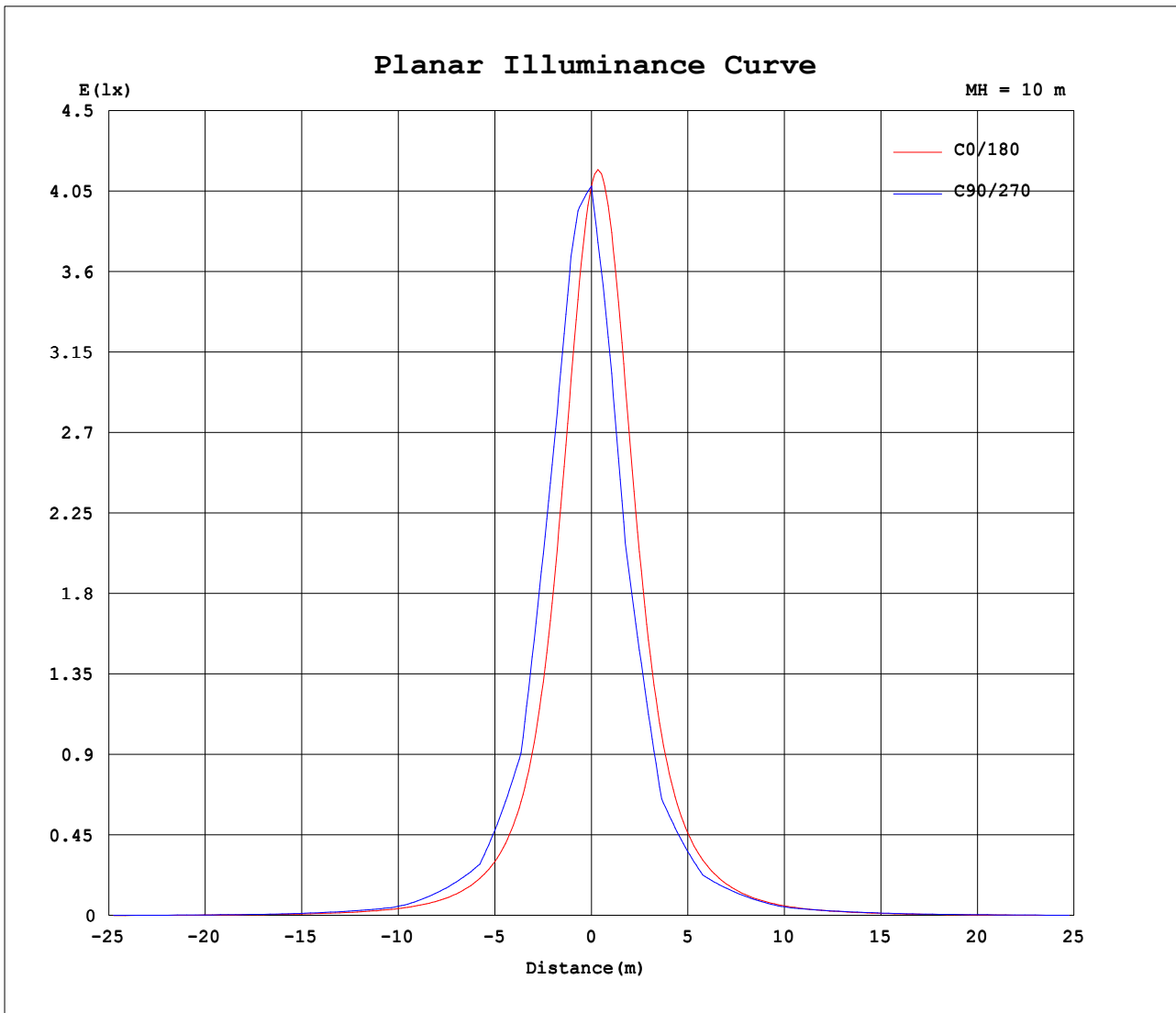
NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081404
	SUR.:0.052	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: WLM
 Test Date: 2021-08-14

γ Range: 0 - 90DEG
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 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 13.693m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081404
	SUR.:0.052	PROTECTION ANGLE:

Table--1

UNIT: cd

γ (DEG) \ C (DEG)	C (DEG)																		
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408
5	326	325	326	327	329	331	335	339	343	348	353	358	362	366	370	374	378	382	386
10	215	215	217	220	225	230	235	240	244	248	253	258	264	269	275	280	286	291	296
15	128	129	132	135	138	142	145	148	153	157	162	167	172	178	183	189	193	198	203
20	76.8	77.4	79.3	81.3	83.1	85.2	87.9	90.0	92.4	95.3	98.4	101	104	105	106	107	108	108	110
25	48.3	48.9	50.1	51.1	52.4	53.6	54.5	55.7	57.2	58.5	59.3	61.1	63.7	66.3	68.9	71.3	73.5	75.4	77.0
30	32.2	32.5	33.1	33.7	34.4	34.8	35.5	36.4	37.2	38.5	39.9	41.3	42.4	43.2	43.7	43.9	43.9	44.0	44.4
35	22.1	22.3	22.7	23.1	23.2	23.7	24.3	24.9	25.5	26.2	26.7	26.9	27.9	29.2	30.4	31.6	32.7	33.6	34.3
40	15.6	15.6	15.9	16.0	16.2	16.6	16.9	17.2	17.5	17.9	18.8	19.7	20.6	21.3	22.0	22.6	23.2	23.8	24.2
45	11.2	11.3	11.5	11.5	11.6	11.8	12.0	12.1	12.6	13.1	13.6	14.0	14.3	14.4	14.3	14.2	14.4	14.7	14.9
50	8.25	8.24	8.39	8.45	8.58	8.69	8.85	9.06	9.30	9.51	9.57	9.53	9.63	9.96	10.3	10.6	10.9	11.2	11.3
55	6.22	6.20	6.28	6.34	6.45	6.56	6.65	6.78	6.88	6.95	7.11	7.32	7.58	7.81	8.01	8.17	8.32	8.48	8.55
60	4.63	4.68	4.70	4.78	4.92	4.96	5.01	5.05	5.19	5.38	5.54	5.65	5.75	5.81	5.84	5.85	5.81	5.79	5.74
65	3.37	3.41	3.41	3.59	3.58	3.64	3.71	3.83	3.94	4.04	4.12	4.15	4.22	4.27	4.31	4.40	4.43	4.46	4.49
70	2.23	2.26	2.32	2.38	2.40	2.44	2.59	2.70	2.82	2.85	2.90	2.96	3.01	3.06	3.08	3.12	3.13	3.16	3.23
75	0.86	0.86	0.99	0.96	1.23	1.17	1.44	1.45	1.56	1.65	1.79	1.95	2.06	2.18	2.24	2.32	2.35	2.40	2.47
80	0.14	0.09	0.07	0.20	0.29	0.23	0.30	0.47	0.80	1.05	1.19	1.31	1.39	1.48	1.52	1.59	1.62	1.66	1.71
85	0.06	0.04	0.06	0.05	0.05	0.06	0.16	0.26	0.39	0.55	0.63	0.69	0.74	0.79	0.82	0.86	0.88	0.92	0.95
90	0.05	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081404
	SUR.:0.052	PROTECTION ANGLE:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408
5	389	392	395	397	400	402	404	404	403	403	402	401	400	399	399	400	400	401	395
10	300	303	307	310	313	315	317	318	320	322	322	320	319	316	312	310	309	311	302
15	206	209	212	214	215	215	214	213	211	210	209	208	209	207	206	203	201	202	196
20	112	115	119	123	127	129	130	130	129	128	127	125	124	124	124	123	121	122	118
25	78.2	79.0	79.4	79.2	78.5	77.3	75.8	75.3	77.0	77.2	76.8	76.2	75.8	75.4	75.1	74.9	74.2	74.5	72.7
30	45.2	46.6	48.2	49.7	50.7	51.1	51.0	50.4	49.6	48.8	48.8	48.6	48.3	48.3	48.1	48.1	47.8	47.9	47.0
35	34.6	34.8	34.7	34.3	33.7	32.9	32.3	33.2	33.4	33.2	32.6	32.3	32.1	32.0	32.3	32.3	32.3	32.2	31.8
40	24.5	24.8	24.9	24.9	24.6	24.2	23.7	23.1	22.5	22.4	22.4	22.2	22.0	21.9	22.0	22.2	22.2	22.3	21.9
45	15.0	15.3	15.5	16.0	16.4	16.6	16.7	16.6	16.2	15.8	15.4	15.4	15.3	15.2	15.2	15.5	15.6	15.6	15.5
50	11.4	11.5	11.5	11.3	11.0	10.7	11.0	11.4	11.5	11.4	11.2	11.0	10.9	10.8	10.8	10.9	11.1	11.2	11.2
55	8.60	8.67	8.74	8.66	8.54	8.45	8.34	8.17	8.05	8.19	8.29	8.20	8.09	8.05	8.05	8.05	8.21	8.23	8.24
60	5.77	5.89	6.05	6.15	6.25	6.36	6.38	6.32	6.25	6.21	6.21	6.20	6.18	6.12	6.11	6.12	6.16	6.18	6.20
65	4.50	4.55	4.60	4.60	4.61	4.65	4.59	4.72	4.74	4.75	4.72	4.73	4.72	4.69	4.65	4.69	4.62	4.66	4.63
70	3.26	3.32	3.40	3.45	3.49	3.53	3.52	3.55	3.51	3.44	3.46	3.50	3.51	3.53	3.44	3.43	3.40	3.42	3.40
75	2.49	2.53	2.57	2.58	2.59	2.59	2.57	2.55	2.50	2.49	2.47	2.42	2.39	2.43	2.47	2.42	2.42	2.39	2.45
80	1.72	1.76	1.79	1.80	1.81	1.81	1.81	1.78	1.74	1.70	1.64	1.58	1.54	1.47	1.46	1.54	1.48	1.49	1.53
85	0.96	0.99	1.01	1.03	1.04	1.05	1.06	1.04	1.03	1.01	0.97	0.93	0.90	0.87	0.84	0.74	0.81	0.74	0.91
90	0.20	0.22	0.23	0.25	0.27	0.29	0.30	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.23	0.03	0.42

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Temperature:25.3DEG	Humidity:65.0%
Operators:WLM	Test Distance:13.693m [K=1.0000]
Test Date:2021-08-14	Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2021081404
	SUR.: 0.052	PROTECTION ANGLE:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408
5	389	383	378	373	369	365	361	357	354	351	347	343	339	336	333	330	327	324	322
10	295	289	285	281	276	272	267	261	256	251	245	240	235	230	226	222	218	215	212
15	191	189	185	182	177	173	169	167	166	165	164	162	160	157	155	152	149	145	142
20	116	115	113	110	109	108	107	107	105	103	100	96.6	92.5	88.2	84.1	81.0	78.9	77.8	77.6
25	71.9	70.9	70.0	69.3	68.7	68.1	67.0	65.2	62.1	61.2	61.3	61.2	60.8	60.1	59.2	58.2	57.0	55.7	54.3
30	46.6	46.1	45.8	45.2	44.7	44.0	43.0	43.2	43.3	43.0	42.4	41.4	40.1	38.6	37.1	35.9	35.0	34.5	34.3
35	31.6	31.5	31.0	30.7	30.4	30.3	30.3	30.1	29.6	28.5	28.6	28.9	29.0	28.9	28.7	28.3	27.8	27.2	26.5
40	21.9	21.8	21.6	21.5	21.4	21.4	21.1	20.9	21.4	21.7	21.9	21.9	21.9	21.7	21.4	21.1	20.7	20.2	19.8
45	15.5	15.3	15.3	15.3	15.2	15.1	15.4	15.6	15.8	15.9	15.8	15.5	15.1	14.6	14.5	14.2	14.0	13.7	13.5
50	11.2	11.1	11.1	11.0	11.0	11.2	11.3	11.4	11.3	11.0	11.0	11.2	11.4	11.5	11.6	11.6	11.4	11.2	10.9
55	8.23	8.32	8.20	8.16	8.26	8.31	8.31	8.22	8.42	8.72	9.01	9.21	9.35	9.43	9.47	9.45	9.37	9.19	8.96
60	6.23	6.20	6.15	6.18	6.24	6.24	6.40	6.64	6.86	7.03	7.20	7.31	7.37	7.36	7.35	7.34	7.32	7.20	7.08
65	4.73	4.64	4.66	4.70	4.80	4.95	5.14	5.30	5.48	5.56	5.63	5.75	5.82	5.80	5.78	5.75	5.69	5.58	5.48
70	3.41	3.41	3.46	3.59	3.72	3.89	4.03	4.16	4.28	4.37	4.42	4.48	4.45	4.35	4.25	4.18	4.06	3.95	3.90
75	2.37	2.46	2.55	2.70	2.82	2.96	3.08	3.17	3.19	3.30	3.37	3.44	3.43	3.38	3.32	3.28	3.19	3.09	3.02
80	1.62	1.67	1.81	1.96	2.05	2.14	2.18	2.24	2.29	2.40	2.47	2.50	2.51	2.47	2.42	2.38	2.32	2.25	2.19
85	0.99	1.16	1.22	1.27	1.32	1.34	1.33	1.35	1.40	1.50	1.57	1.58	1.59	1.56	1.52	1.49	1.45	1.40	1.37
90	0.58	0.59	0.60	0.61	0.61	0.57	0.48	0.48	0.51	0.62	0.68	0.67	0.67	0.66	0.62	0.59	0.58	0.57	0.55

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: WLM
Test Date: 2021-08-14

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity: 65.0%
Test Distance: 13.693m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: REL21-1 / REL22-1 / REL23-1 Single Head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081404
	SUR.:0.052	PROTECTION ANGLE:

Table--4 UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408				
5	319	317	315	314	313	311	310	309	309	309	310	312	314	317	321				
10	210	208	206	205	203	203	202	202	202	202	203	203	204	207	210				
15	139	135	132	129	126	123	120	118	119	119	120	121	122	123	125				
20	77.9	78.0	78.0	77.6	76.8	75.6	74.4	73.2	72.3	71.6	71.7	72.5	73.3	74.0	74.9				
25	52.9	51.4	49.9	48.4	47.0	46.3	46.7	46.6	46.3	46.0	45.9	46.1	46.5	47.0	47.4				
30	34.3	34.2	33.9	33.5	33.0	32.3	31.7	31.1	31.0	30.9	30.9	31.0	31.1	31.5	31.7				
35	25.7	24.8	23.9	23.0	22.2	22.3	22.2	22.0	21.7	21.5	21.4	21.4	21.6	21.7	21.9				
40	19.2	18.7	18.1	17.4	16.8	16.2	15.6	15.5	15.4	15.2	15.1	15.0	15.1	15.3	15.4				
45	13.2	13.0	12.9	12.7	12.5	12.1	11.8	11.4	11.1	11.0	10.9	10.8	10.8	11.0	11.0				
50	10.5	9.98	9.52	9.09	8.90	8.84	8.72	8.54	8.35	8.17	8.09	8.02	8.00	8.08	8.12				
55	8.63	8.24	7.88	7.53	7.12	6.74	6.45	6.41	6.30	6.17	6.09	6.02	5.99	6.03	6.07				
60	6.85	6.60	6.36	6.08	5.77	5.49	5.23	4.96	4.66	4.59	4.55	4.55	4.47	4.46	4.55				
65	5.30	5.10	4.95	4.74	4.57	4.40	4.16	3.90	3.63	3.39	3.28	3.26	3.28	3.18	3.31				
70	3.79	3.65	3.57	3.45	3.35	3.26	3.12	2.99	2.80	2.55	2.30	2.12	2.11	2.08	2.11				
75	2.88	2.74	2.61	2.44	2.32	2.16	2.03	1.95	1.83	1.73	1.48	1.20	0.87	0.86	0.77				
80	2.07	1.98	1.87	1.74	1.63	1.51	1.38	1.24	1.02	0.71	0.56	0.49	0.33	0.11	0.13				
85	1.28	1.22	1.16	1.05	0.96	0.89	0.81	0.74	0.61	0.45	0.30	0.19	0.15	0.17	0.09				
90	0.50	0.46	0.45	0.37	0.31	0.28	0.27	0.27	0.25	0.25	0.25	0.25	0.25	0.24	0.24				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-14

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks: