

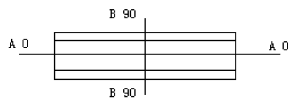
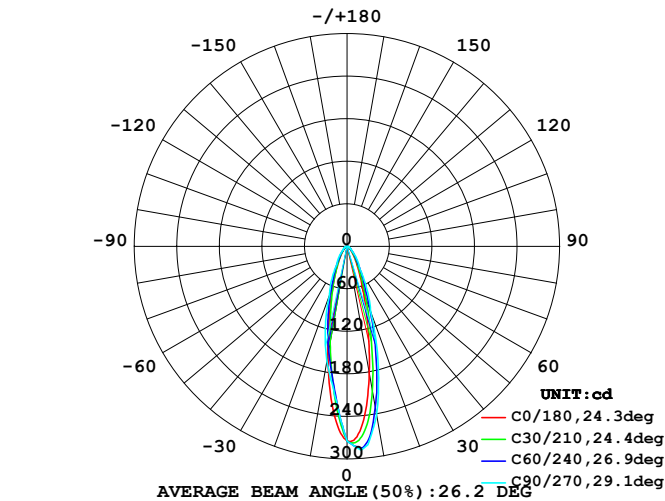


LUMINAIRE PHOTOMETRIC TEST REPORT

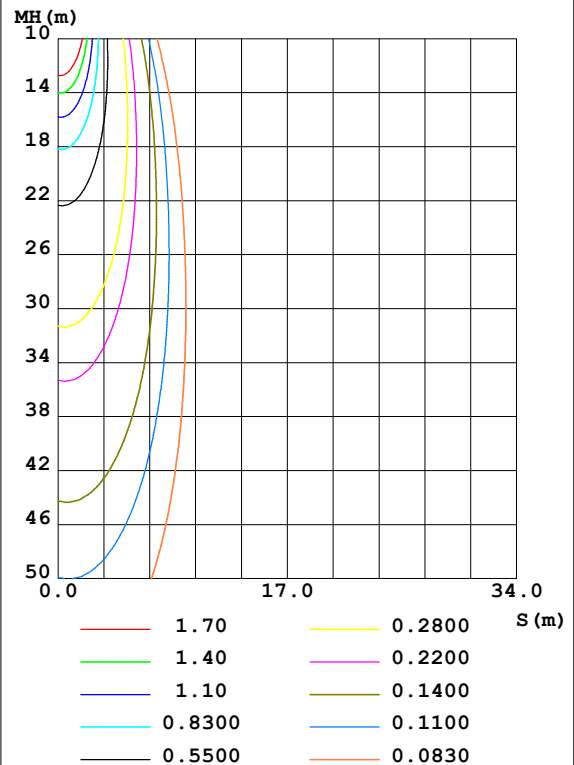
NAME: RXEL37 single head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081101
	SUR.:0.052	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	RXEL37 single head	I _{max} (cd)	288.5	S/MH (C0/180)	0.39
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.43
RATED VOLTAGE (V)	4	TOTAL FLUX (lm)	107.15	η UP, DN (C0-180)	0.0, 54.9
NOMINAL FLUX (lm)	107.149	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 45.1
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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-11

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	251.7	275.5	284.8	259.9	230.1	204.53	207.8	219.1	0- 5	6.090	6.090	5.68,5.68
10	181.6	219.1	241.5	200.6	156.6	142.1	164.8	161.1	5- 10	14.99	21.08	19.7,19.7
15	112.2	144.9	169.9	133.0	95.36	96.02	119.2	111.2	10- 15	17.75	38.83	36.2,36.2
20	66.80	86.43	98.21	79.68	57.35	61.48	73.52	71.15	15- 20	15.80	54.64	51,51
25	41.08	51.66	67.01	48.36	35.71	39.47	51.19	44.95	20- 25	12.41	67.04	62.6,62.6
30	26.36	32.95	35.82	31.07	23.16	26.16	28.85	29.63	25- 30	9.544	76.59	71.5,71.5
35	17.49	21.65	27.50	20.43	15.57	17.48	22.26	19.70	30- 35	7.120	83.71	78.1,78.1
40	11.97	14.49	19.17	13.70	10.70	11.78	15.67	13.22	35- 40	5.615	89.32	83.4,83.4
45	8.382	10.47	11.45	9.986	7.539	8.665	9.573	9.704	40- 45	4.312	93.64	87.4,87.4
50	6.128	7.446	8.646	7.208	5.636	6.326	7.443	7.016	45- 50	3.263	96.90	90.4,90.4
55	4.626	5.299	6.451	5.208	4.299	4.692	5.809	5.034	50- 55	2.626	99.52	92.9,92.9
60	3.633	4.149	4.256	4.023	3.308	3.742	4.175	4.013	55- 60	2.118	101.6	94.9,94.9
65	2.815	3.183	3.322	3.019	2.490	2.898	3.362	3.161	60- 65	1.685	103.3	96.4,96.4
70	2.099	2.365	2.387	2.243	1.786	2.198	2.549	2.415	65- 70	1.340	104.7	97.7,97.7
75	1.432	1.632	1.857	1.638	1.164	1.655	1.975	1.718	70- 75	1.022	105.7	98.6,98.6
80	0.8998	1.150	1.326	1.116	0.6228	1.149	1.401	1.228	75- 80	0.7414	106.4	99.3,99.3
85	0.4733	0.7030	0.7958	0.6286	0.2188	0.6681	0.8275	0.7794	80- 85	0.4804	106.9	99.8,99.8
90	0.0346	0.2653	0.2653	0.1499	0.0346	0.1961	0.2537	0.3345	85- 90	0.2385	107.1	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		

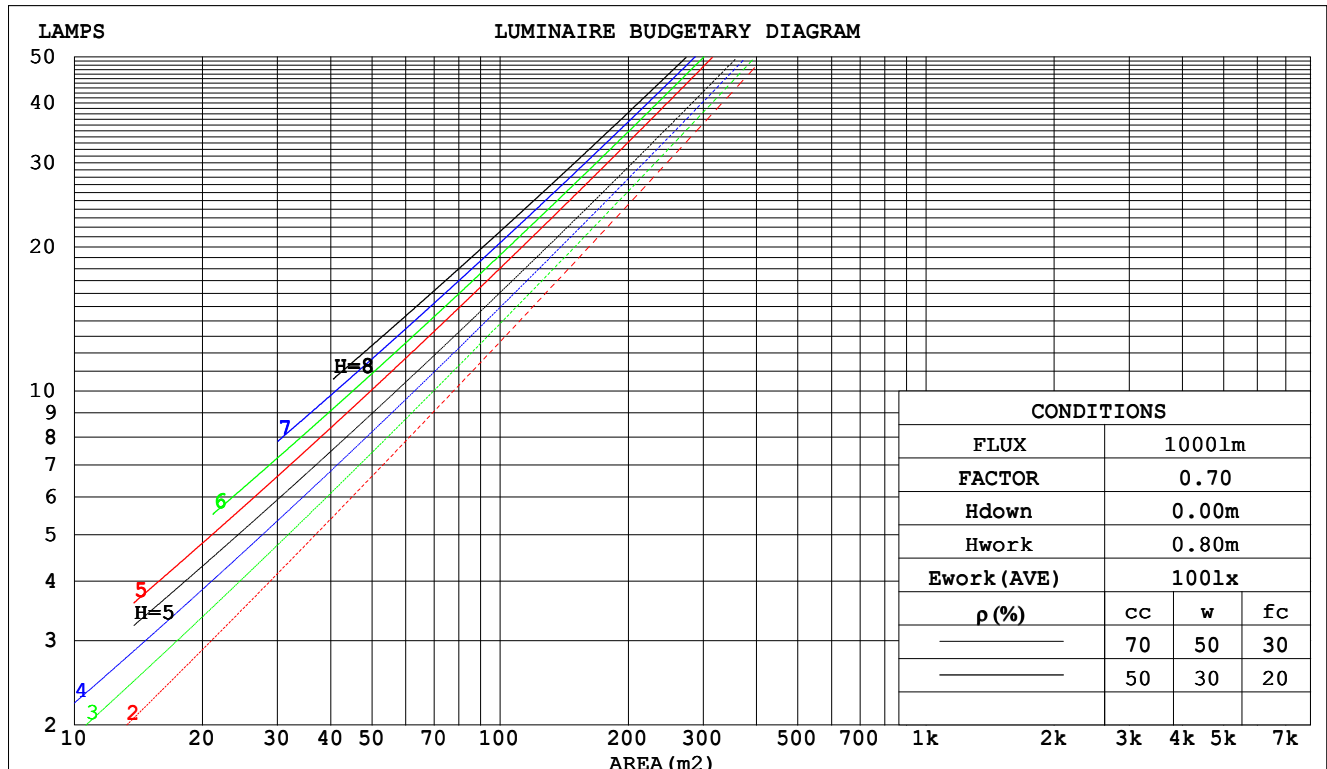
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-11

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: RXEL37 single head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081101
	SUR.:0.052	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WLM
Test Date:2021-08-11

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: RXEL37 single head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081101
	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	.192	.109	.035	.186	.106	.034	.173	.099	.032	.161	.093	.030	.151	.087	.028		
2.0	.180	.099	.030	.175	.096	.030	.164	.091	.028	.154	.086	.027	.145	.082	.026		
3.0	.169	.090	.027	.164	.088	.026	.155	.084	.025	.146	.080	.025	.138	.077	.024		
4.0	.158	.082	.024	.154	.080	.024	.146	.077	.023	.139	.074	.022	.132	.072	.022		
5.0	.148	.076	.022	.145	.074	.022	.138	.072	.021	.132	.069	.021	.126	.067	.020		
6.0	.140	.070	.020	.137	.069	.020	.131	.067	.019	.125	.065	.019	.120	.063	.019		
7.0	.132	.065	.019	.129	.064	.018	.124	.063	.018	.119	.061	.018	.114	.059	.017		
8.0	.125	.061	.017	.123	.060	.017	.118	.059	.017	.114	.058	.017	.109	.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	.086	.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	.065	.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:2021-08-11

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: RXEL37 single head						TYPE:		WEIGHT:		
SPEC.:						DIM.:		SERIAL No.:2021081101		
						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
walls	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
Room dimensions						Viewed crosswise				
x = 2H y = 2H						Viewed endwise				
3H						14.2	15.1	14.4	15.3	15.5
4H						15.8	16.7	16.0	16.9	17.1
6H						16.5	17.3	16.7	17.5	17.7
8H						16.8	17.7	17.1	17.9	18.1
12H						17.2	18.0	17.5	18.2	18.5
15.7						17.4	18.1	17.7	18.4	18.6
15.8						17.5	18.2	17.8	18.5	18.8
4H 2H						16.0	16.8	16.2	17.0	17.3
3H						16.8	17.6	17.2	17.8	18.1
4H						17.3	18.0	17.7	18.3	18.6
6H						17.8	18.4	18.2	18.8	19.1
8H						18.1	18.6	18.5	19.0	19.4
12H						18.3	18.8	18.7	19.2	19.6
8H 4H						17.4	18.0	17.8	18.3	18.7
6H						18.1	18.6	18.5	19.0	19.4
8H						18.5	18.9	18.9	19.3	19.7
12H						18.8	19.2	19.3	19.6	20.1
12H 4H						17.4	17.9	17.8	18.3	18.7
6H						18.1	18.6	18.6	19.0	19.4
8H						18.6	18.9	19.0	19.4	19.8
Variations with the observer position at spacings:										
S = 1.0H		+ 0.5 / - 0.6					+ 0.6 / - 0.7			
1.5H		+ 0.5 / - 0.5					+ 1.2 / - 0.5			
2.0H		+ 0.7 / - 0.5					+ 0.8 / - 0.7			

CIE Pub.117 Corrected 107.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -7.8)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:WLM
 Test Date:2021-08-11

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: RXEL37 single head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081101
	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	74	69	81	74	69	80	73	69	65
0.80	89	82	78	88	82	78	87	81	77	73
1.00	94	88	83	94	87	83	92	87	83	78
1.25	99	93	89	98	92	88	96	91	87	83
1.50	102	96	92	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	101	98	95	89
2.50	108	103	100	106	102	99	103	100	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	95
5.00	114	111	109	111	109	107	107	106	104	96
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = SHRNOM = 1.25			

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 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
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 Remarks:

ISOCANDELA DIAGRAM

NAME: RXEL37 single head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081101
	SUR.:0.052	PROTECTION ANGLE:

Conical surface Flux(90deg):

93.635 lm

%lum = 87.4%

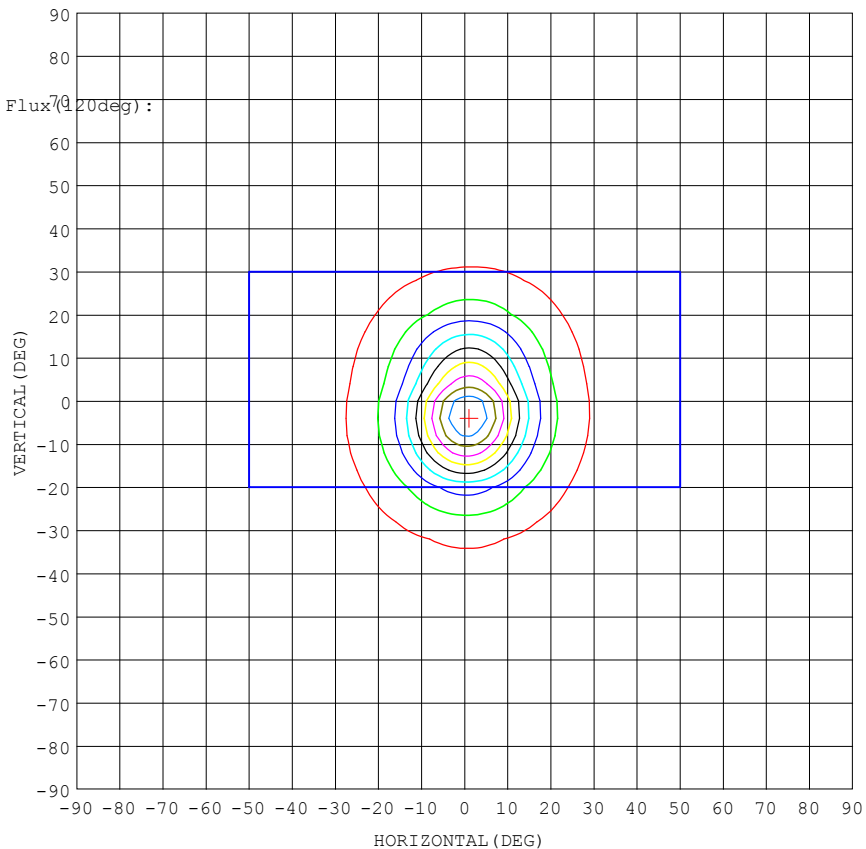
%lamp = 87.4%

Conical surface Flux(70deg):

101.64 lm

%lum = 94.9%

%lamp = 94.9%

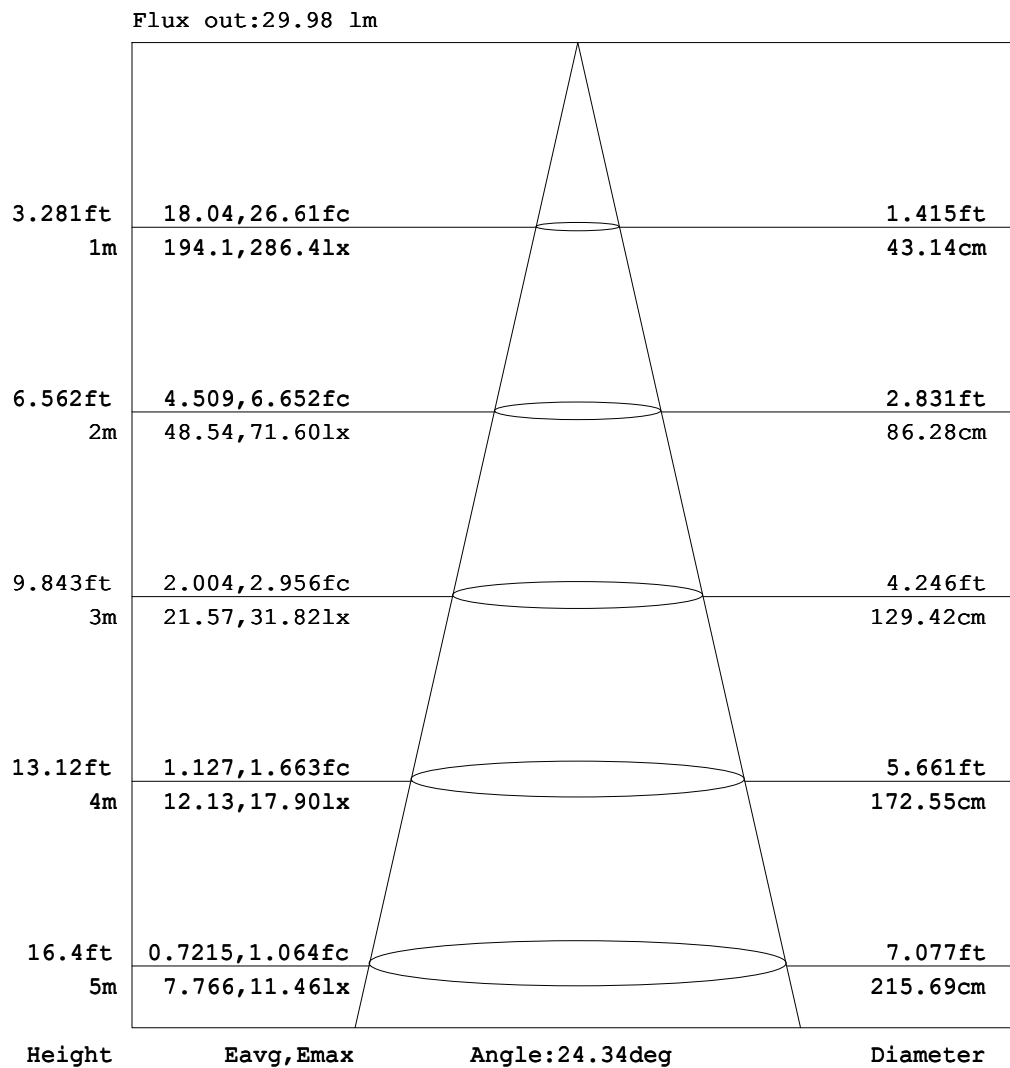


C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3DEG
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks:

AAI Figure

NAME: RXEL37 single head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081101
	SUR.:0.052	PROTECTION ANGLE:



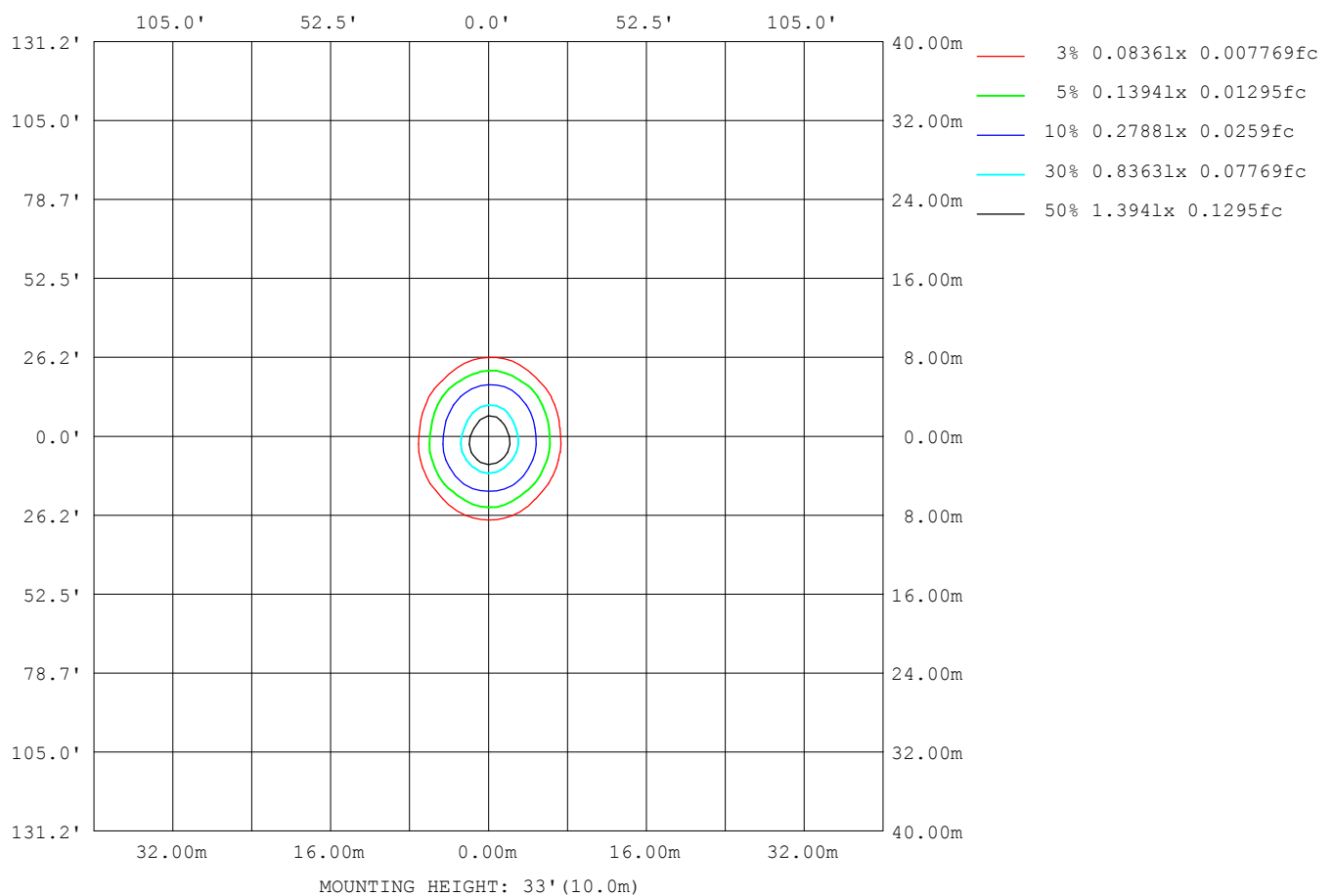
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: WLM
Test Date: 2021-08-11

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

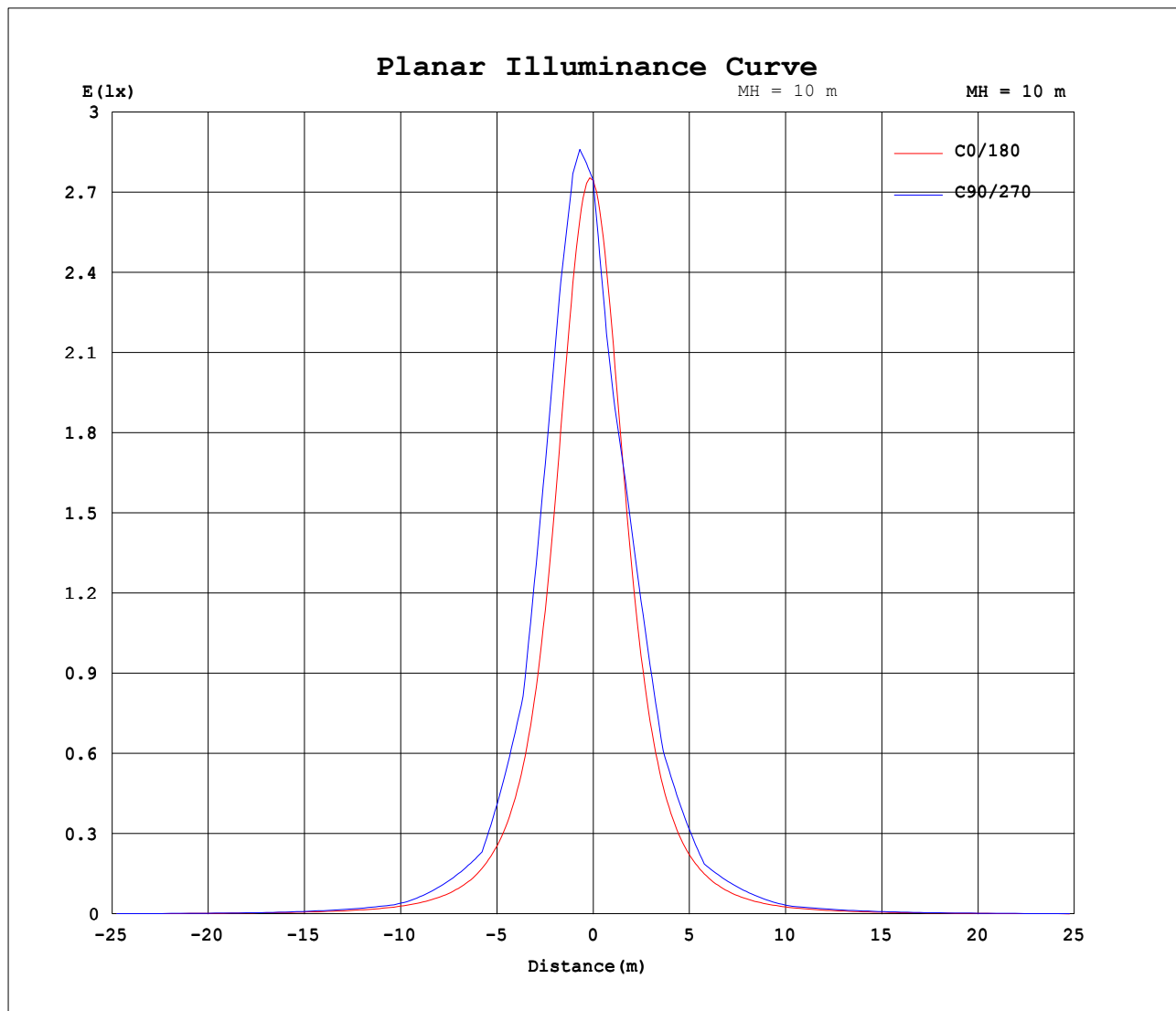
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SPEC.:	DIM.:	SERIAL No.:2021081101
	SUR.:0.052	PROTECTION ANGLE:



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 Remarks:

Planar Illuminance Curve



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Test Speed: HIGH
Temperature: 25.3DEG
Operators: WLM
Test Date: 2021-08-11

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 γ Interval: 0.5DEG
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Remarks:

NAME: RXEL37 single head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2021081101
	SUR.:0.052	PROTECTION ANGLE:

UNIT: cd

[illegible]

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

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UNIT: cd

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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:

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NAME: RXEL37 single head	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2021081101
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UNIT: cd

[illegible]

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Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
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UNIT: cd

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