

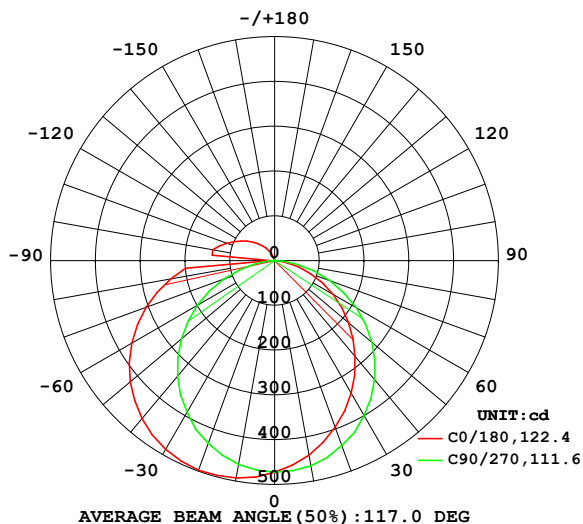
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

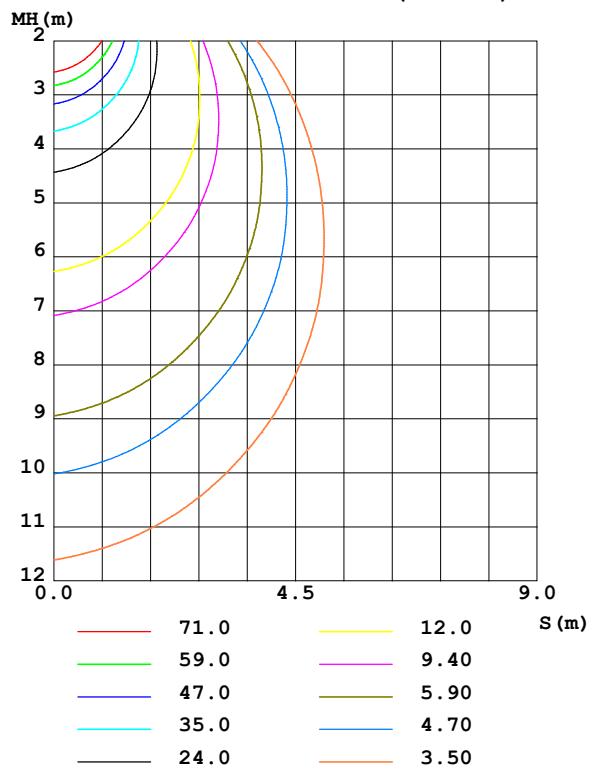
Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz		
Lamp Flux:1632.59x1 lm		
NAME: 8979WH-5CCT_IES 27K		
MFR: Royal Pacific Ltd.		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.21 lm/W
MODEL		I _{max} (cd)	498.1	S/MH (C0/180)		1.52
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)		1.24
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1632.6	η UP, DN (C0-180)		2.3, 42.0
NOMINAL FLUX (lm)	1632.59	CIE CLASS	DIRECT	η UP, DN (C180-360)		5.9, 49.8
LAMPS INSIDE	1	η up (%)	8.2	CIBSE SHR NOM		1.25
TEST VOLTAGE (V)	120	η down (%)	91.8	CIBSE SHR MAX		1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 2025-08-12

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	441.0	445.4	465.0	485.6	493.1	482.3	462.4	445.1	0- 10	44.75	44.75	2.74,2.74
20	395.5	407.5	439.1	481.1	498.1	477.0	434.2	405.1	10- 20	128.6	173.3	10.6,10.6
30	342.0	356.1	399.8	461.3	487.0	455.0	391.0	353.9	20- 30	196.3	369.6	22.6,22.6
40	279.6	295.5	346.9	427.9	461.0	419.9	337.4	294.6	30- 40	239.9	609.5	37.3,37.3
50	215.7	228.4	284.1	380.3	421.3	370.3	271.8	229.5	40- 50	254.6	864.1	52.9,52.9
60	151.6	156.6	211.1	319.8	368.5	308.8	199.4	160.7	50- 60	239.7	1104	67.6,67.6
70	85.81	91.23	130.9	249.9	304.9	236.6	120.2	92.40	60- 70	197.6	1301	79.7,79.7
80	28.96	31.22	52.22	173.5	235.5	158.9	44.35	31.84	70- 80	136.2	1438	88.1,88.1
90	0.2353	0.0757	0.0003	4.878	10.18	7.318	0.0230	0.0070	80- 90	61.57	1499	91.8,91.8
100	0.0755	0	0	88.64	140.4	72.49	0	0	90-100	32.37	1532	93.8,93.8
110	0.2272	0	0	69.41	114.1	55.77	0	0	100-110	35.77	1567	96,96
120	0.2264	0	0	52.70	88.19	44.20	0	0	110-120	26.29	1594	97.6,97.6
130	0.1510	0	0	38.06	64.92	38.26	0.1518	0	120-130	18.31	1612	98.7,98.7
140	0.0762	0	0	25.09	44.48	33.09	0.1520	0	130-140	11.89	1624	99.5,99.5
150	0.0755	0	0	13.62	26.03	22.45	0.1520	0	140-150	6.552	1630	99.9,99.9
160	0.0755	0	0	3.028	0.6034	0.7352	0.0760	0	150-160	2.044	1632	100,100
170	0.0755	0.0761	0	0.8347	0.6037	0.0768	0.0760	0	160-170	0.1732	1633	100,100
180	0.0755	0.0761	0	0.8347	0.6037	0.0761	0.0760	0	170-180	0.0208	1633	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-08-12

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2600]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz

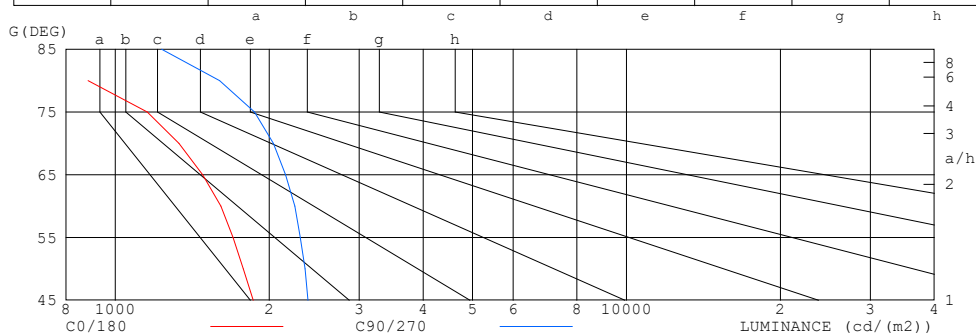
Lamp Flux:1632.59x1 lm

NAME: 8979WH-5CCT_IES 27K

MFR: Royal Pacific Ltd.

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	433	1231
80	885	1600
75	1155	1871
70	1331	2037
65	1482	2152
60	1609	2246
55	1698	2301
50	1780	2352
45	1860	2382

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-08-12

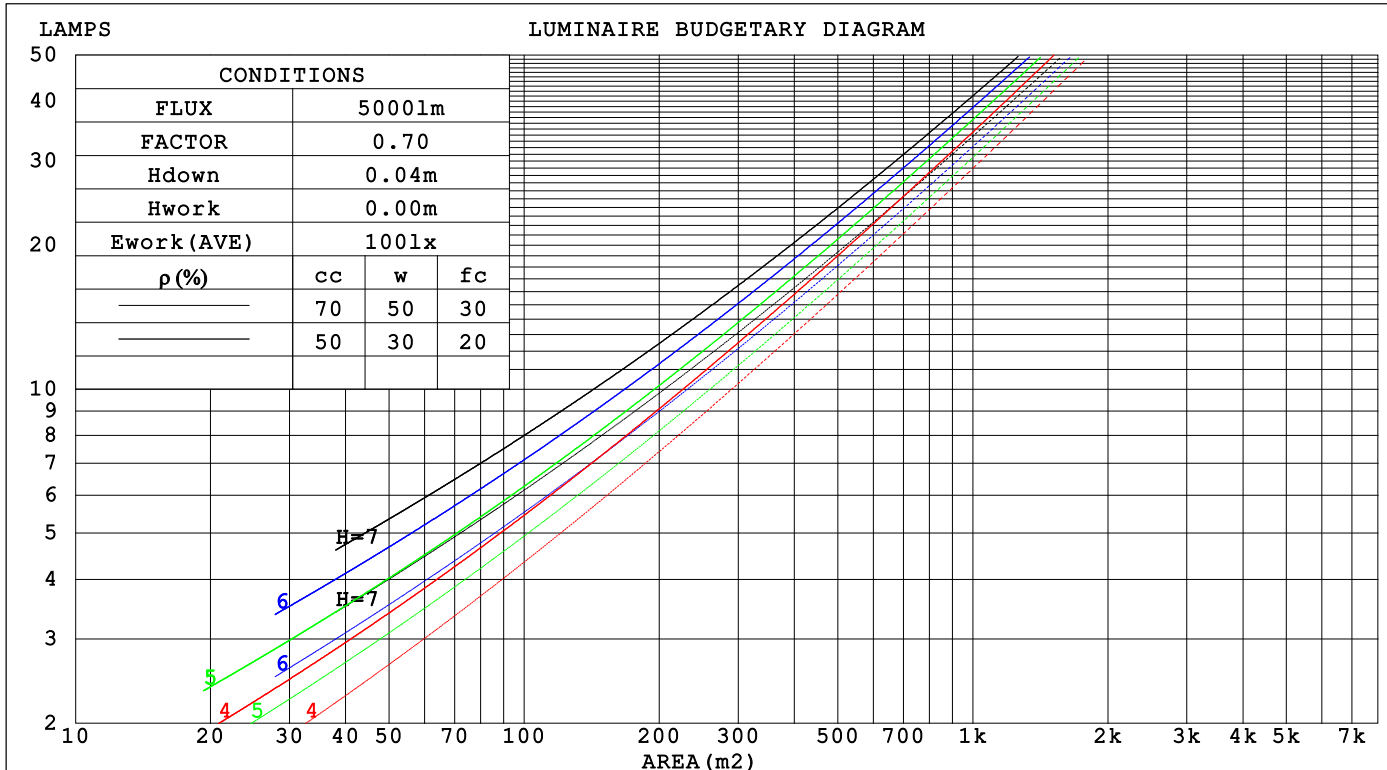
γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz		
Lamp Flux:1632.59x1 lm		
NAME: 8979WH-5CCT_IES 27K		
MFR: Royal Pacific Ltd.		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	1.00	.96	.91	.97	.93	.89	.92	.88	.85	.86	.83	.81	.81	.79	.77	.74
2.0	.87	.79	.73	.84	.77	.72	.79	.74	.69	.75	.70	.66	.70	.67	.63	.61
3.0	.76	.67	.60	.73	.66	.59	.69	.63	.57	.65	.60	.55	.62	.57	.53	.50
4.0	.67	.58	.51	.65	.56	.50	.61	.54	.48	.58	.52	.47	.55	.50	.45	.43
5.0	.59	.50	.43	.58	.49	.43	.55	.47	.41	.52	.45	.40	.49	.44	.39	.37
6.0	.53	.44	.38	.52	.43	.37	.49	.42	.36	.47	.40	.35	.44	.39	.34	.32
7.0	.48	.39	.33	.47	.39	.33	.45	.37	.32	.43	.36	.31	.41	.35	.30	.28
8.0	.44	.35	.29	.43	.35	.29	.41	.34	.28	.39	.32	.28	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.38	.30	.25	.36	.29	.25	.34	.29	.24	.22
10.0	.37	.29	.24	.36	.29	.23	.35	.28	.23	.33	.27	.23	.32	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-08-12

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz											
Lamp Flux:1632.59x1 lm											
NAME: 8979WH-5CCT_IES 27K											
MFR: Royal Pacific Ltd.											

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.339	.193	.061	.329	.188	.060	.311	.179	.057	.295	.170	.055	.280	.162	.052		
2.0	.309	.169	.052	.300	.165	.051	.284	.158	.049	.269	.151	.047	.255	.144	.046		
3.0	.281	.150	.045	.273	.146	.044	.259	.140	.043	.245	.135	.041	.233	.129	.040		
4.0	.257	.133	.039	.250	.131	.039	.237	.126	.038	.225	.121	.036	.213	.116	.035		
5.0	.236	.120	.035	.229	.118	.034	.218	.113	.033	.207	.109	.032	.197	.105	.032		
6.0	.217	.109	.031	.212	.107	.031	.201	.103	.030	.191	.099	.029	.182	.096	.028		
7.0	.201	.100	.028	.196	.098	.028	.187	.094	.027	.178	.091	.027	.169	.088	.026		
8.0	.188	.092	.026	.183	.090	.025	.174	.087	.025	.166	.084	.024	.158	.081	.024		
9.0	.175	.085	.024	.171	.083	.023	.163	.081	.023	.156	.078	.022	.149	.075	.022		
10.0	.165	.079	.022	.161	.078	.022	.153	.075	.021	.147	.073	.021	.140	.070	.020		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.253	.253	.253	.216	.216	.216	.147	.147	.147	.085	.085	.085	.027	.027	.027	
1.0	.245	.219	.195	.210	.188	.168	.143	.129	.116	.083	.075	.067	.026	.024	.022	
2.0	.238	.195	.159	.204	.168	.138	.140	.116	.096	.080	.068	.056	.026	.022	.018	
3.0	.230	.178	.136	.197	.153	.118	.135	.107	.083	.078	.062	.049	.025	.020	.016	
4.0	.223	.165	.121	.191	.143	.105	.131	.099	.074	.076	.058	.044	.024	.019	.014	
5.0	.215	.155	.110	.185	.134	.096	.127	.094	.068	.074	.055	.040	.024	.018	.013	
6.0	.208	.147	.103	.179	.127	.090	.123	.089	.063	.071	.052	.038	.023	.017	.012	
7.0	.201	.140	.097	.173	.121	.085	.119	.085	.060	.069	.050	.036	.022	.016	.012	
8.0	.194	.134	.093	.167	.116	.081	.116	.082	.058	.067	.048	.034	.022	.016	.011	
9.0	.188	.129	.090	.162	.112	.078	.112	.079	.056	.065	.047	.033	.021	.015	.011	
10.0	.182	.125	.087	.157	.109	.076	.109	.076	.054	.064	.045	.032	.021	.015	.011	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-08-12

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz Lamp Flux:1632.59x1 lm		
NAME: 8979WH-5CCT_IES 27K		
MFR: Royal Pacific Ltd.		

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) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	41	34	51	40	34	27
0.80	63	51	43	61	50	43	59	49	42	35
1.00	71	59	51	69	58	51	66	59	50	42
1.25	78	67	59	76	66	58	73	64	57	49
1.50	83	72	64	81	71	64	77	68	62	53
2.00	90	81	73	88	79	72	83	76	70	60
2.50	94	86	79	92	84	77	87	80	75	64
3.00	98	90	84	95	88	82	90	84	79	68
4.00	102	96	90	99	93	88	94	89	85	73
5.00	105	99	94	102	97	92	96	92	88	76
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

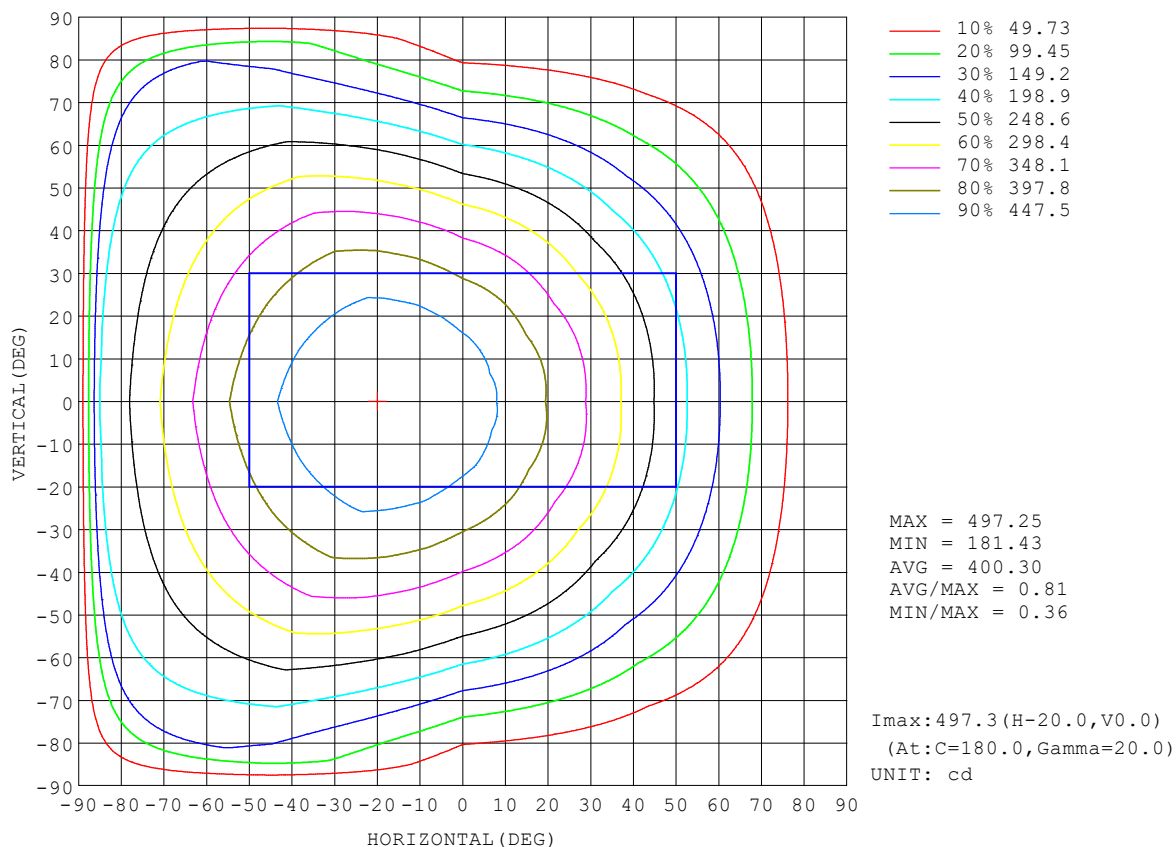
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2025-08-12

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity: 65.0%
 Test Distance: 26.000m [K=1.2600]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz		
Lamp Flux:1632.59x1 lm		
NAME: 8979WH-5CCT_IES 27K		
MFR: Royal Pacific Ltd.		



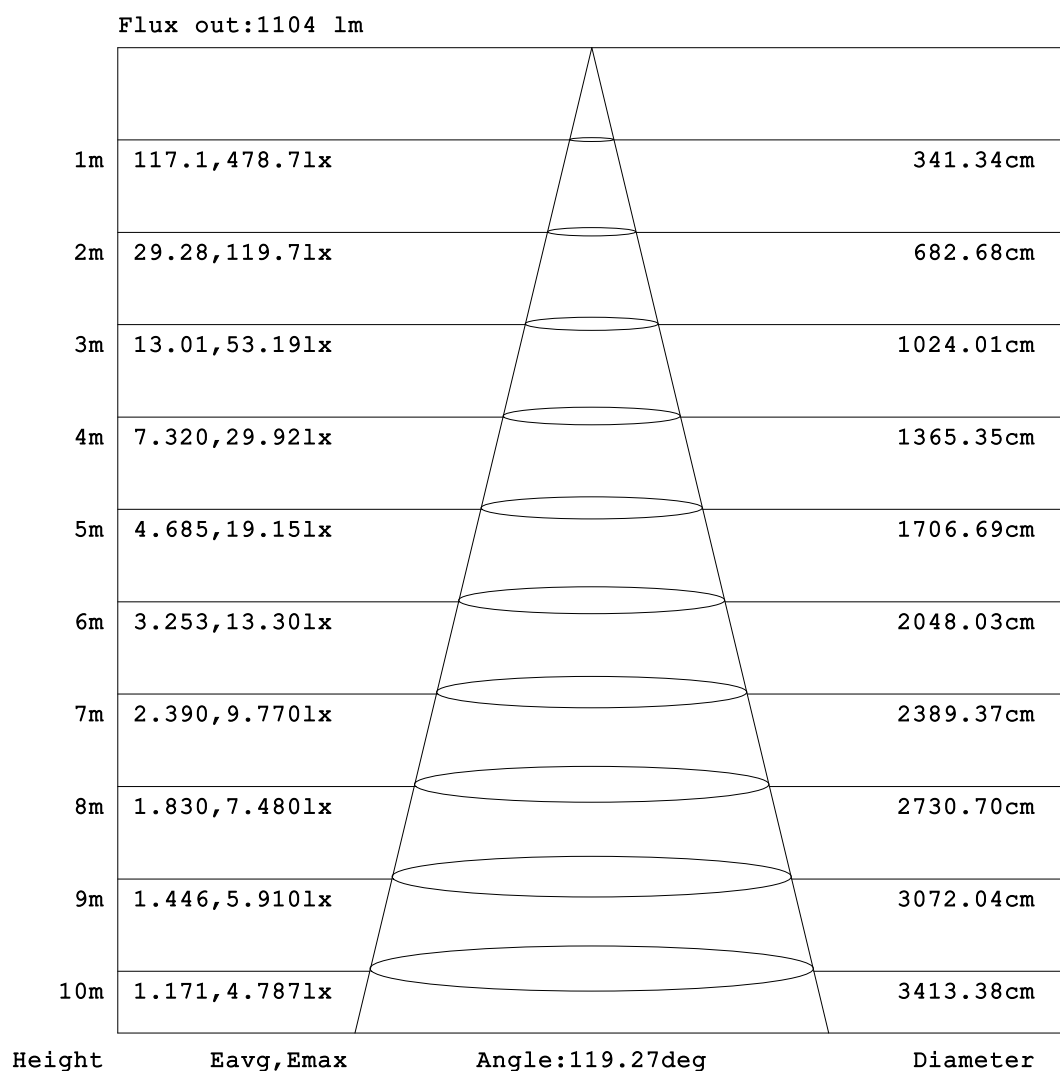
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-08-12

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz		
Lamp Flux:1632.59x1 lm		
NAME: 8979WH-5CCT_IES 27K		
MFR: Royal Pacific Ltd.		



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

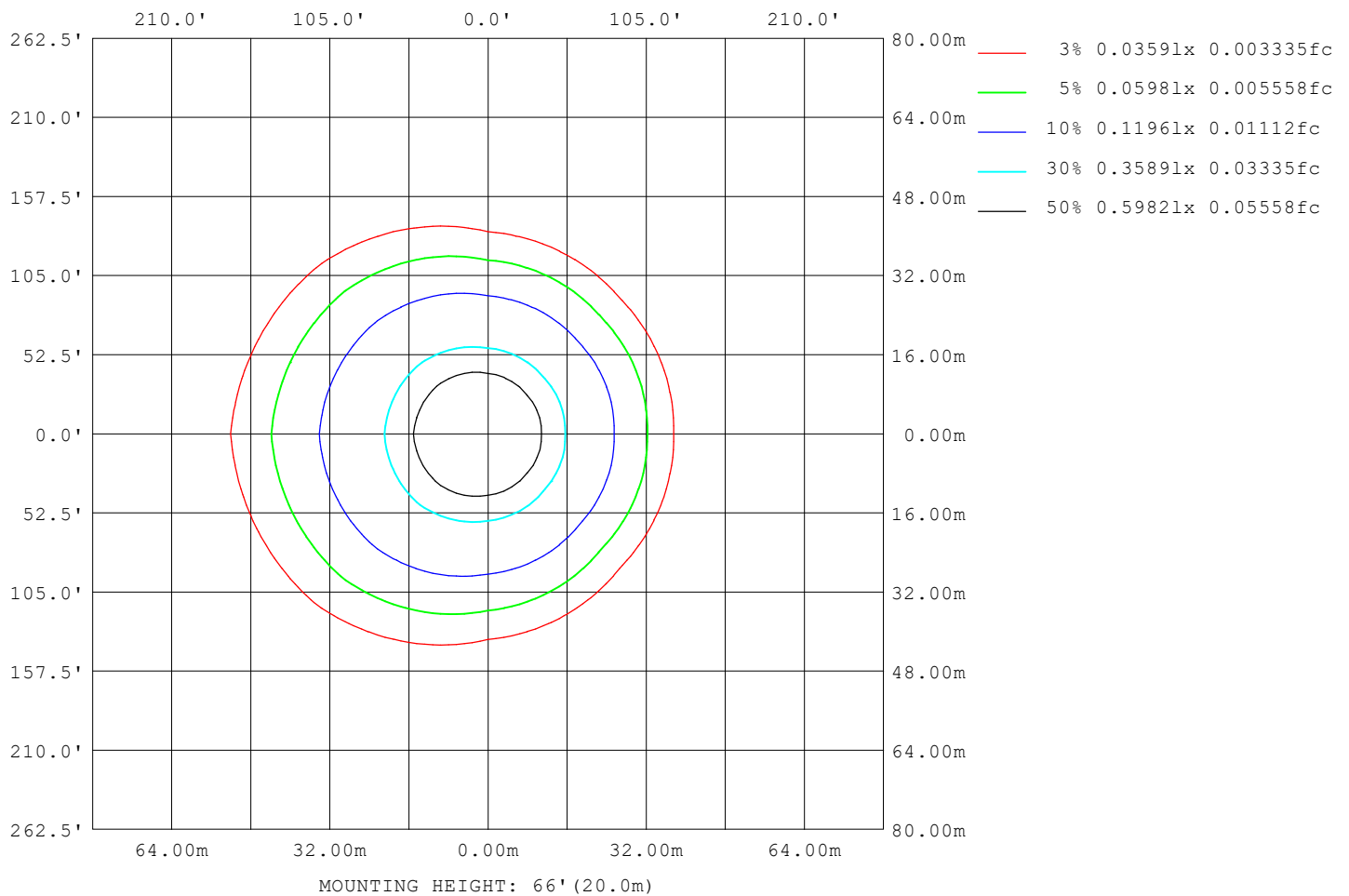
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3℃
 Operators: DAMIN
 Test Date: 2025-08-12

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity: 65.0%
 Test Distance: 26.000m [K=1.2600]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz		
Lamp Flux:1632.59x1 lm		
NAME: 8979WH-5CCT_IES 27K		
MFR: Royal Pacific Ltd.		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-12

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2600]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz Lamp Flux:1632.59x1 lm		
NAME: 8979WH-5CCT_IES 27K		
MFR: Royal Pacific Ltd.		

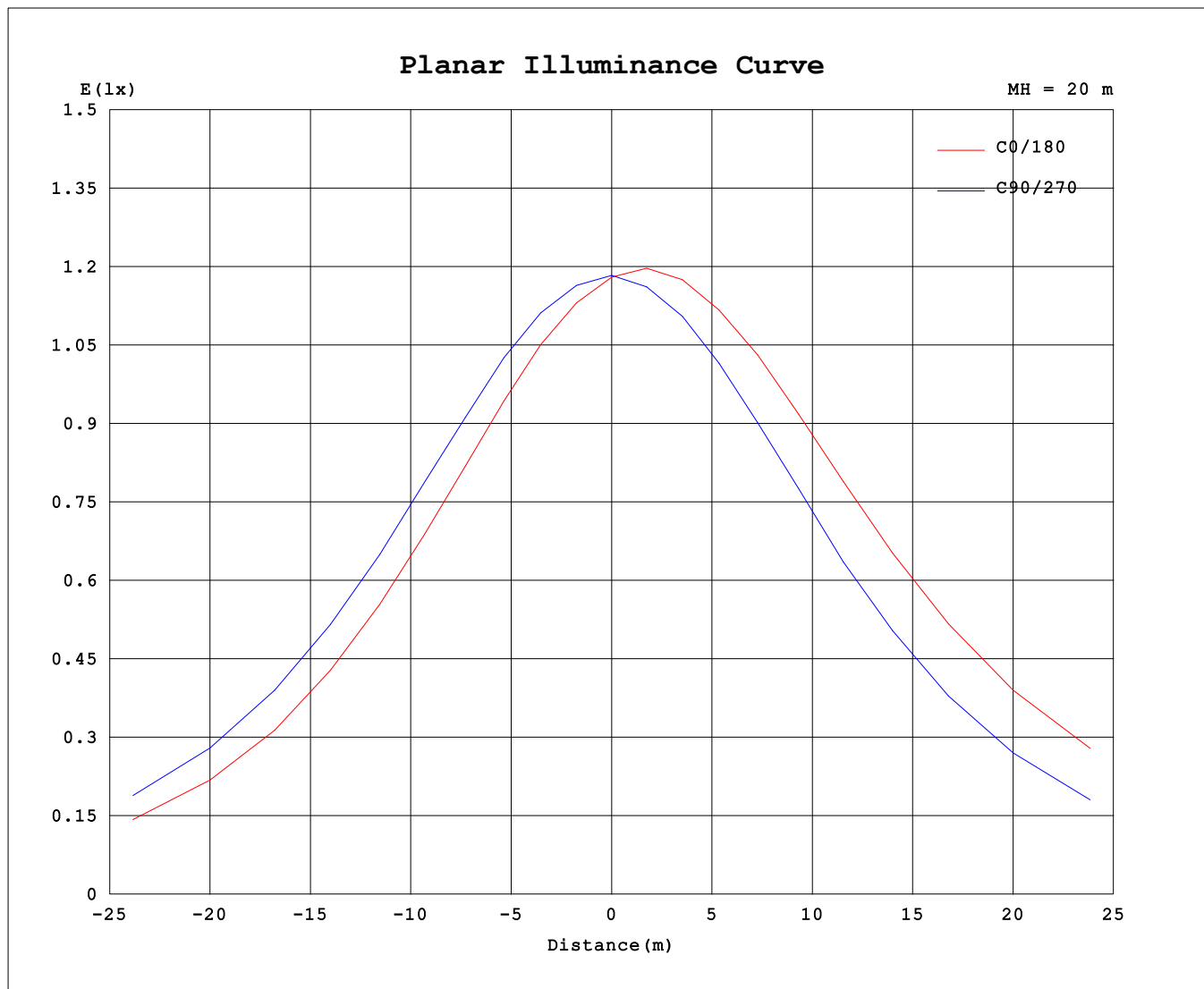
AvgL	cd/m2
L_0~180 (65) av	2866
L_0~180 (75) av	3358
L_0~180 (85) av	6320
L_90~270 (65) av	2081
L_90~270 (75) av	1765
L_90~270 (85) av	1060
L_45 (65) av	2546
L_45 (75) av	2721
L_45 (85) av	4161

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-08-12

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2600]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 2025-08-12

γ Range: 0 - 180DEG
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 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity: 65.0%
 Test Distance: 26.000m [K=1.2600]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.92V I:0.1743A P:20.354W PF:0.9737 Freq:60.01Hz		
Lamp Flux:1632.59x1 lm		
NAME: 8979WH-5CCT_IES 27K		
MFR: Royal Pacific Ltd.		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	473	473	473	473	473	473	473	473										
5	458	461	471	482	485	479	470	461										
10	441	445	465	486	493	482	462	445										
15	420	427	455	485	497	482	450	427										
20	395	408	439	481	498	477	434	405										
25	370	383	423	474	494	468	416	380										
30	342	356	400	461	487	455	391	354										
35	312	327	375	447	476	438	367	325										
40	280	296	347	428	461	420	337	295										
45	248	263	317	405	442	396	306	263										
50	216	228	284	380	421	370	272	229										
55	184	194	248	351	397	341	236	195										
60	152	157	211	320	368	309	199	161										
65	118	124	171	286	338	274	160	127										
70	85.8	91.2	131	250	305	237	120	92.4										
75	56.3	58.4	91.0	213	271	198	80.8	60.7										
80	29.0	31.2	52.2	174	235	159	44.4	31.8										
85	7.12	9.14	20.2	134	200	121	14.6	8.66										
90	0.24	0.08	0.00	4.88	10.2	7.32	0.02	0.01										
95	0.15	0.00	0.00	94.4	140	78.7	0.00	0.00										
100	0.08	0.00	0.00	88.6	140	72.5	0.00	0.00										
105	0.15	0.00	0.00	79.0	128	63.5	0.00	0.00										
110	0.23	0.00	0.00	69.4	114	55.8	0.00	0.00										
115	0.23	0.00	0.00	60.8	101	49.3	0.00	0.00										
120	0.23	0.00	0.00	52.7	88.2	44.2	0.00	0.00										
125	0.23	0.00	0.00	45.4	76.2	40.6	0.08	0.00										
130	0.15	0.00	0.00	38.1	64.9	38.3	0.15	0.00										
135	0.15	0.00	0.00	31.7	54.5	36.2	0.15	0.00										
140	0.08	0.00	0.00	25.1	44.5	33.1	0.15	0.00										
145	0.08	0.00	0.00	19.3	35.1	28.5	0.15	0.00										
150	0.08	0.00	0.00	13.6	26.0	22.4	0.15	0.00										
155	0.08	0.00	0.00	0.68	17.5	16.2	0.08	0.00										
160	0.08	0.00	0.00	3.03	0.60	0.74	0.08	0.00										
165	0.08	0.08	0.00	0.83	2.70	2.66	0.08	0.00										
170	0.08	0.08	0.00	0.83	0.60	0.08	0.08	0.00										
175	0.08	0.08	0.00	0.83	0.60	0.08	0.08	0.00										
180	0.08	0.08	0.00	0.83	0.60	0.08	0.08	0.00										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-08-12

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2600]
Remarks: