

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P888280

Luminaire Tested: **DPT5-6FO55-85S27-A-XX-UDD**

Issue Date: 10/24/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P888280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DEFINE LENGTH SCALING TOOL)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: DPT5-6FO55-85S27-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

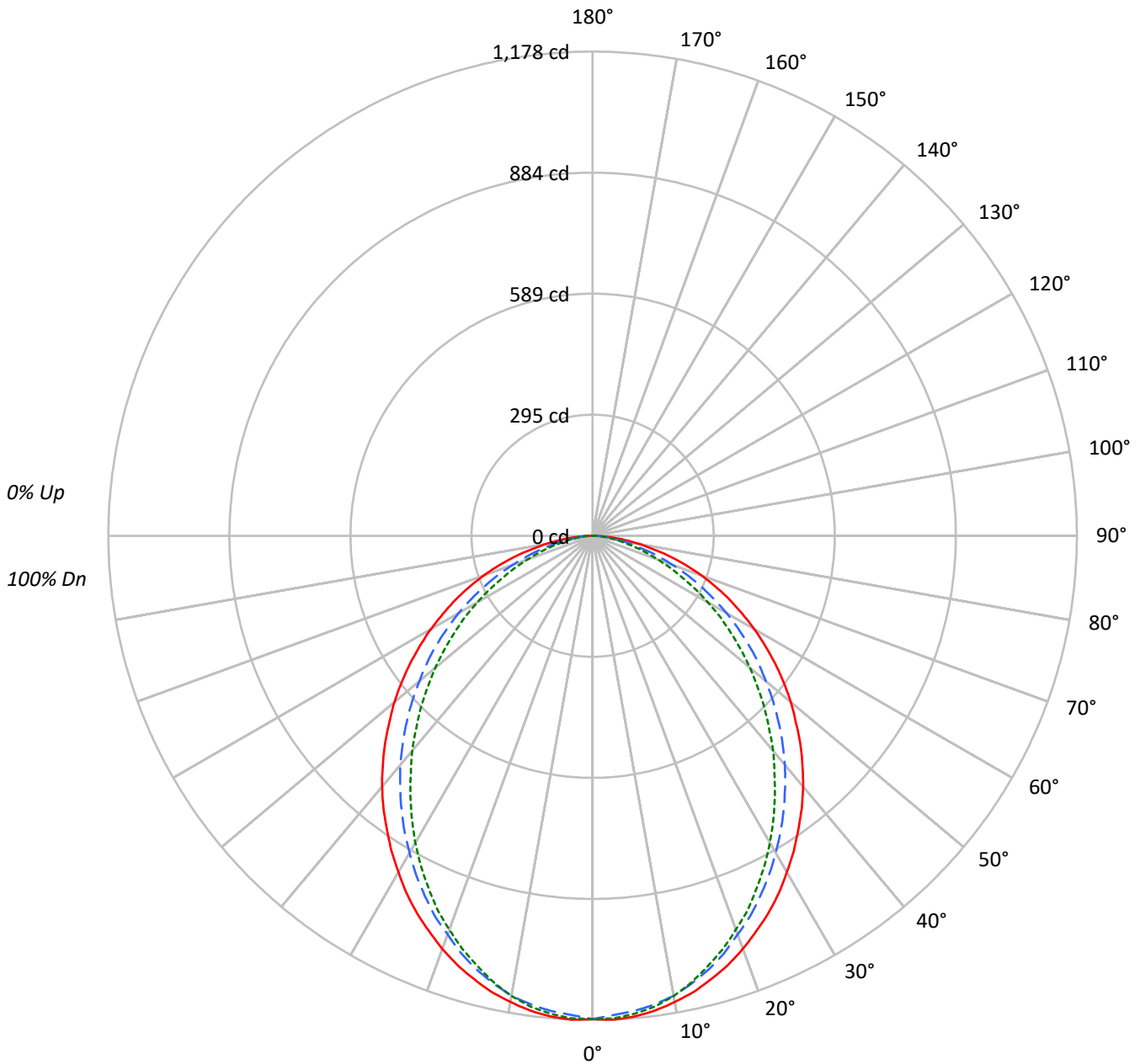
Lumens per Lamp: N/A
Luminaire Lumens: 2778.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 30.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61																			
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36																			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33																			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7510	7510	7510
5°	7527	7441	7485
10°	7469	7371	7371
15°	7381	7221	7164
20°	7266	7013	6929
25°	7133	6808	6658
30°	6968	6568	6360
35°	6799	6321	6023
40°	6642	6063	5694
45°	6449	5774	5334
50°	6255	5461	4959
55°	6033	5163	4559
60°	5808	4797	4128
65°	5544	4376	3634
70°	5241	3845	3135
75°	4821	3245	2611
80°	4248	2552	2192
85°	3576	2088	1956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	4.0
10°-20°	309.3	11.1
20°-30°	448.4	16.1
30°-40°	510.9	18.4
40°-50°	497.9	17.9
50°-60°	419.1	15.1
60°-70°	293.7	10.6
70°-80°	150.6	5.4
80°-90°	37.6	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	868.3	31.3
0°-40°	1379.2	49.6
0°-60°	2296.2	82.7
0°-90°	2778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1174	1171	1161	1169	1168	111
15°	1116	1111	1092	1091	1084	315
25°	1012	999	966	955	945	466
35°	872	851	811	785	773	546
45°	714	688	639	604	591	551
55°	542	513	464	424	410	484
65°	367	337	290	254	240	363
75°	195	169	132	112	106	206
85°	49	33	28	28	27	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.9	1175.9	1175.9	1175.9	1175.9
2.5°	1178.5	1175.9	1167.0	1175.9	1174.9
5°	1174.1	1170.6	1160.7	1169.4	1167.6
7.5°	1165.2	1161.5	1150.0	1157.1	1155.4
10°	1151.8	1149.2	1136.7	1139.5	1136.7
12.5°	1136.7	1133.0	1115.2	1117.1	1112.8
15°	1116.4	1111.0	1092.2	1091.4	1083.5
17.5°	1095.0	1087.1	1064.7	1060.4	1054.1
20°	1069.1	1060.4	1031.9	1027.4	1019.5
22.5°	1040.8	1031.9	1001.9	992.0	985.6
25°	1012.3	998.9	966.2	954.6	944.9
27.5°	980.5	964.4	929.8	914.8	905.0
30°	944.9	928.1	890.7	870.5	862.4
32.5°	910.2	889.9	851.7	828.6	818.1
35°	872.1	850.9	810.8	785.1	772.6
37.5°	835.7	809.8	769.0	739.0	726.3
40°	796.7	770.0	727.3	693.5	683.0
42.5°	755.6	728.1	683.6	651.9	634.9
45°	714.0	688.4	639.3	603.9	590.6
47.5°	670.3	643.9	594.9	558.6	543.5
50°	629.6	600.3	549.7	512.5	499.1
52.5°	585.1	555.2	507.9	467.0	453.7
55°	541.8	513.3	463.7	423.7	409.5
57.5°	497.3	467.0	419.2	380.0	367.7
60°	454.7	423.7	375.6	336.6	323.2
62.5°	409.5	380.0	331.3	295.7	282.4
65°	366.9	336.6	289.6	253.9	240.5
67.5°	324.0	294.1	248.6	215.0	204.4
70°	280.7	250.4	205.9	178.4	167.9
72.5°	238.0	208.7	167.9	143.0	136.9
75°	195.4	168.7	131.5	112.0	105.8
77.5°	151.7	130.5	99.3	84.5	79.1
80°	115.5	94.2	69.4	61.3	59.6
82.5°	79.9	61.3	46.3	43.3	42.7
85°	48.8	32.8	28.5	27.5	26.7
87.5°	20.6	14.2	13.3	13.3	12.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)