

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: P888461

Luminaire Tested: **DPT5-6FO44-109V60-F-XX-UDD_3000K**

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: P888461
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: DPT5-6FO44-109V60-F-XX-UDD_3000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

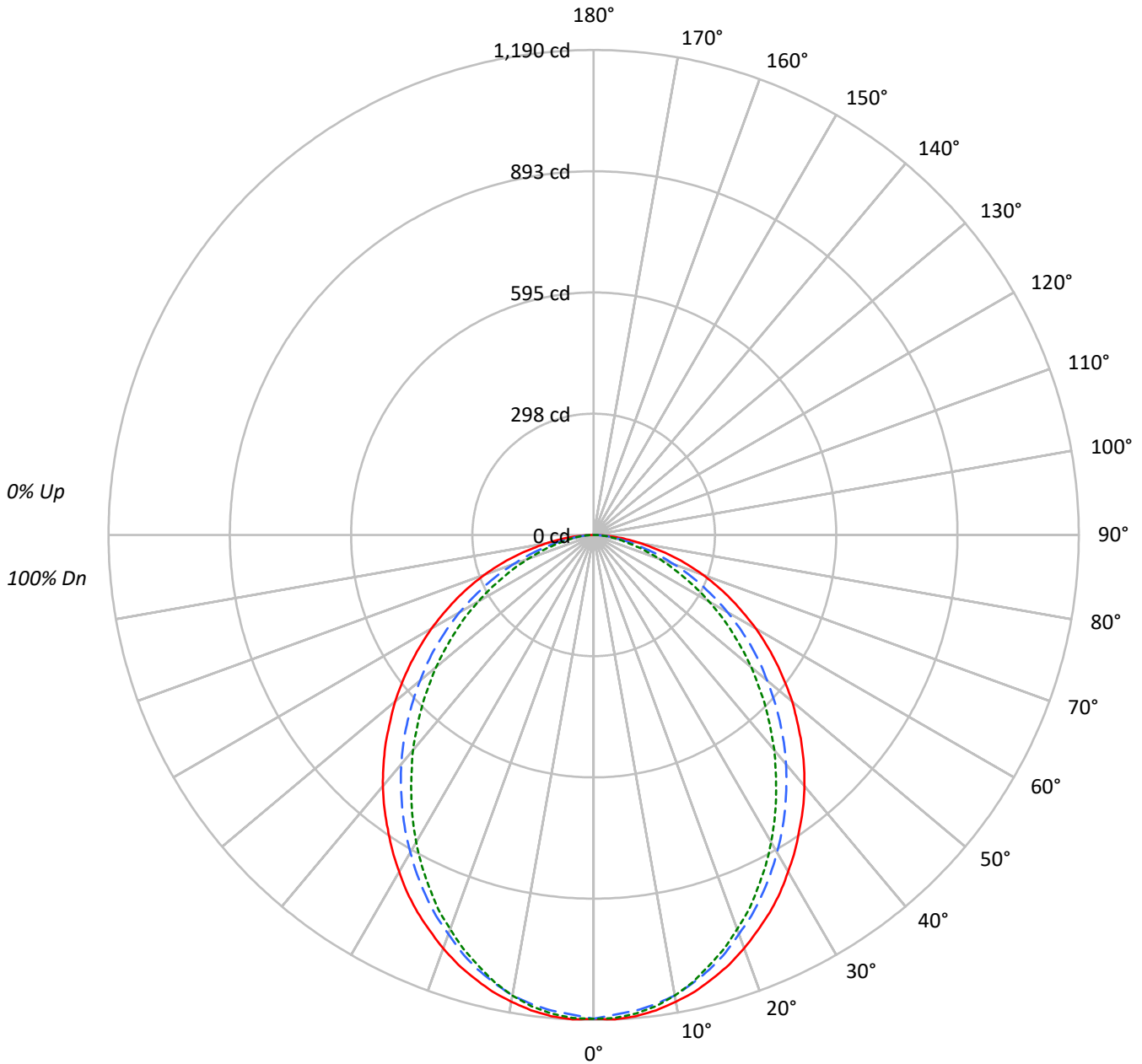
Lumens per Lamp: N/A
Luminaire Lumens: 2805.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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°	9179	9179	9179
5°	9200	9095	9149
10°	9130	9010	9010
15°	9022	8826	8756
20°	8881	8572	8469
25°	8719	8322	8138
30°	8517	8029	7773
35°	8311	7727	7362
40°	8118	7411	6959
45°	7882	7057	6519
50°	7646	6676	6062
55°	7374	6311	5573
60°	7098	5863	5045
65°	6776	5349	4441
70°	6406	4699	3831
75°	5893	3964	3190
80°	5191	3116	2680
85°	4364	2555	2386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	4.0
10°-20°	312.3	11.1
20°-30°	452.8	16.1
30°-40°	515.9	18.4
40°-50°	502.8	17.9
50°-60°	423.1	15.1
60°-70°	296.5	10.6
70°-80°	152.0	5.4
80°-90°	37.9	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°	876.8	31.3
0°-40°	1392.6	49.6
0°-60°	2318.5	82.7
0°-90°	2805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1186	1182	1172	1181	1179	112
15°	1127	1122	1103	1102	1094	318
25°	1022	1009	976	964	954	470
35°	881	859	819	793	780	551
45°	721	695	646	610	596	556
55°	547	518	468	428	414	489
65°	370	340	292	256	243	367
75°	197	170	133	113	107	209
85°	49	33	29	28	27	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1187.3	1187.3	1187.3	1187.3	1187.3
2.5°	1190.0	1187.3	1178.3	1187.3	1186.3
5°	1185.5	1182.0	1172.0	1180.8	1179.0
7.5°	1176.5	1172.8	1161.2	1168.3	1166.7
10°	1163.0	1160.4	1147.7	1150.5	1147.7
12.5°	1147.7	1144.1	1126.1	1127.9	1123.6
15°	1127.3	1121.8	1102.8	1102.0	1094.0
17.5°	1105.6	1097.6	1075.0	1070.7	1064.4
20°	1079.5	1070.7	1041.9	1037.4	1029.4
22.5°	1050.9	1041.9	1011.6	1001.7	995.2
25°	1022.1	1008.7	975.6	963.9	954.1
27.5°	990.0	973.7	938.8	923.7	913.8
30°	954.1	937.1	899.4	878.9	870.8
32.5°	919.0	898.5	860.0	836.7	826.0
35°	880.6	859.1	818.7	792.8	780.1
37.5°	843.8	817.7	776.5	746.2	733.4
40°	804.4	777.5	734.4	700.3	689.6
42.5°	763.0	735.2	690.3	658.2	641.1
45°	720.9	695.1	645.5	609.8	596.3
47.5°	676.8	650.2	600.6	564.0	548.7
50°	635.7	606.1	555.1	517.5	504.0
52.5°	590.8	560.5	512.8	471.6	458.1
55°	547.1	518.3	468.2	427.8	413.5
57.5°	502.2	471.6	423.3	383.7	371.3
60°	459.1	427.8	379.2	339.8	326.3
62.5°	413.5	383.7	334.5	298.6	285.1
65°	370.4	339.8	292.4	256.3	242.8
67.5°	327.2	296.9	251.0	217.1	206.4
70°	283.4	252.8	207.9	180.1	169.5
72.5°	240.4	210.7	169.5	144.4	138.2
75°	197.3	170.3	132.7	113.1	106.8
77.5°	153.2	131.7	100.3	85.3	79.8
80°	116.6	95.1	70.0	61.9	60.2
82.5°	80.7	61.9	46.7	43.7	43.1
85°	49.2	33.1	28.8	27.8	26.9
87.5°	20.8	14.3	13.5	13.5	12.5
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)