

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: P888510

Luminaire Tested: **DPT5-6FO44-85V60-F-XX-UDD_6500K**

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: P888510
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: DPT5-6FO44-85V60-F-XX-UDD_6500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

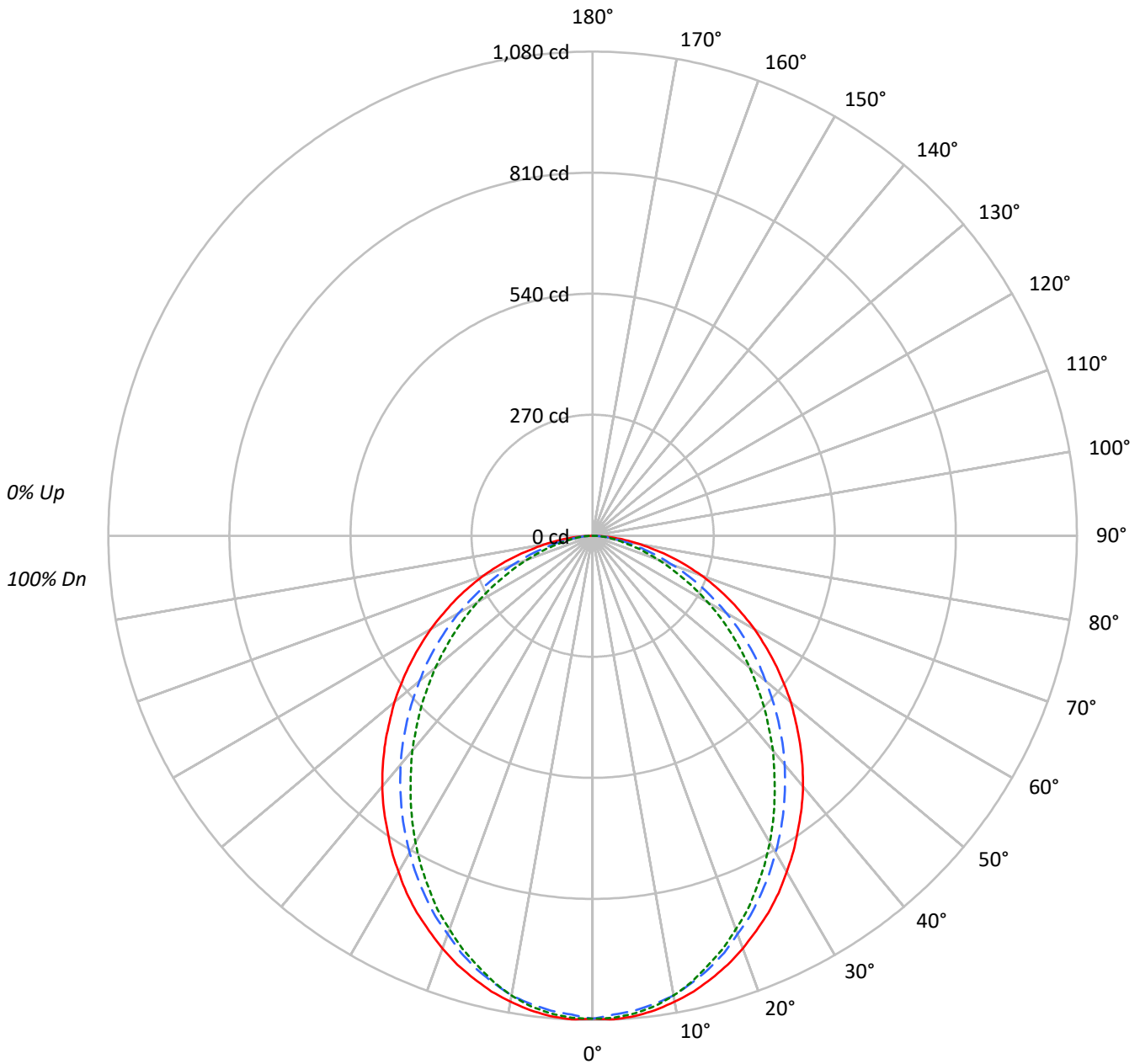
Lumens per Lamp: N/A
Luminaire Lumens: 2545.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 24.8
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°	8328	8328	8328
5°	8347	8252	8301
10°	8283	8174	8174
15°	8186	8008	7944
20°	8058	7777	7684
25°	7911	7550	7384
30°	7728	7284	7053
35°	7541	7010	6680
40°	7365	6724	6314
45°	7151	6403	5915
50°	6937	6057	5500
55°	6691	5726	5057
60°	6440	5320	4578
65°	6148	4853	4030
70°	5814	4263	3476
75°	5347	3596	2894
80°	4710	2827	2431
85°	3965	2315	2164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	4.0
10°-20°	283.3	11.1
20°-30°	410.8	16.1
30°-40°	468.0	18.4
40°-50°	456.2	17.9
50°-60°	383.9	15.1
60°-70°	269.0	10.6
70°-80°	137.9	5.4
80°-90°	34.4	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°	795.5	31.3
0°-40°	1263.5	49.6
0°-60°	2103.7	82.7
0°-90°	2545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1076	1072	1063	1071	1070	102
15°	1023	1018	1001	1000	993	288
25°	927	915	885	875	866	427
35°	799	780	743	719	708	500
45°	654	631	586	553	541	504
55°	496	470	425	388	375	444
65°	336	308	265	233	220	333
75°	179	154	120	103	97	189
85°	45	30	26	25	24	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.2	1077.2	1077.2	1077.2	1077.2
2.5°	1079.7	1077.2	1069.1	1077.2	1076.3
5°	1075.6	1072.4	1063.4	1071.4	1069.7
7.5°	1067.4	1064.1	1053.6	1060.0	1058.5
10°	1055.2	1052.8	1041.3	1043.9	1041.3
12.5°	1041.3	1038.0	1021.7	1023.4	1019.4
15°	1022.8	1017.8	1000.6	999.8	992.6
17.5°	1003.1	995.9	975.4	971.5	965.7
20°	979.5	971.5	945.3	941.3	934.0
22.5°	953.5	945.3	917.9	908.8	902.9
25°	927.4	915.2	885.1	874.6	865.7
27.5°	898.3	883.5	851.8	838.0	829.1
30°	865.7	850.3	816.0	797.4	790.1
32.5°	833.8	815.3	780.2	759.1	749.5
35°	799.0	779.5	742.8	719.3	707.8
37.5°	765.6	741.9	704.5	677.0	665.4
40°	729.8	705.4	666.3	635.4	625.7
42.5°	692.3	667.1	626.3	597.2	581.6
45°	654.1	630.7	585.7	553.3	541.0
47.5°	614.1	589.9	545.0	511.8	497.9
50°	576.8	549.9	503.6	469.5	457.3
52.5°	536.1	508.6	465.3	427.9	415.6
55°	496.4	470.3	424.8	388.2	375.2
57.5°	455.6	427.9	384.1	348.2	336.8
60°	416.5	388.2	344.1	308.3	296.1
62.5°	375.2	348.2	303.5	270.9	258.7
65°	336.1	308.3	265.3	232.6	220.3
67.5°	296.9	269.4	227.7	196.9	187.3
70°	257.2	229.4	188.6	163.4	153.8
72.5°	218.1	191.2	153.8	131.0	125.4
75°	179.0	154.5	120.4	102.6	96.9
77.5°	139.0	119.5	91.0	77.4	72.4
80°	105.8	86.3	63.5	56.1	54.6
82.5°	73.2	56.1	42.4	39.7	39.1
85°	44.7	30.0	26.1	25.2	24.4
87.5°	18.9	13.0	12.2	12.2	11.3
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)