

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: P888520

Luminaire Tested: **DPT5-6FO55-109V60-F-XX-UDD_5000K**

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: P888520
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: DPT5-6FO55-109V60-F-XX-UDD_5000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

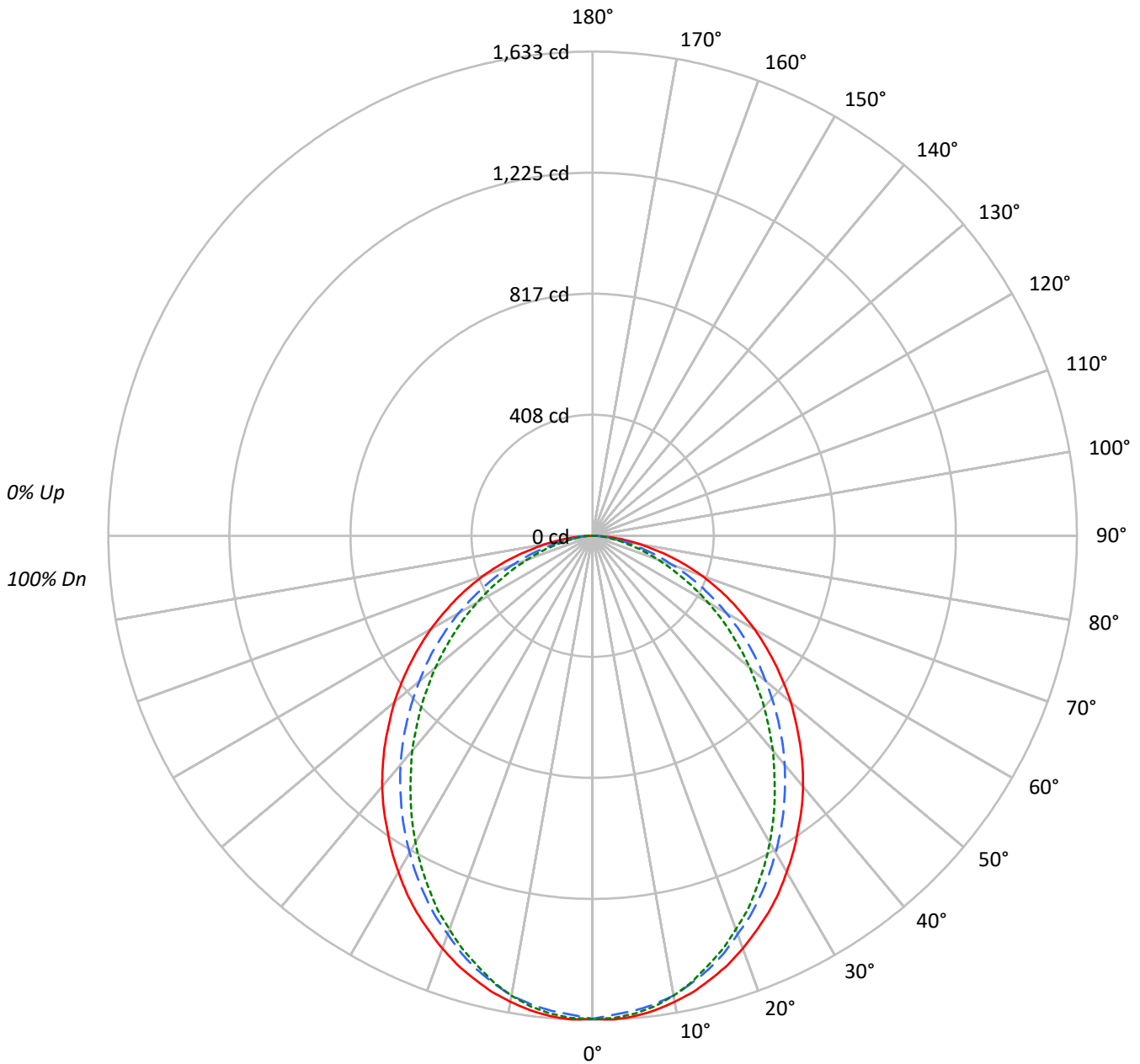
Lumens per Lamp: N/A
Luminaire Lumens: 3849.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.6
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°	10405	10405	10405
5°	10428	10310	10371
10°	10349	10213	10213
15°	10227	10005	9925
20°	10067	9716	9600
25°	9883	9432	9225
30°	9654	9101	8812
35°	9420	8758	8346
40°	9202	8401	7889
45°	8934	8000	7391
50°	8667	7567	6871
55°	8358	7154	6318
60°	8047	6647	5720
65°	7681	6064	5035
70°	7262	5327	4343
75°	6679	4493	3615
80°	5884	3534	3038
85°	4953	2894	2711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	4.0
10°-20°	428.5	11.1
20°-30°	621.3	16.1
30°-40°	707.8	18.4
40°-50°	689.9	17.9
50°-60°	580.6	15.1
60°-70°	406.9	10.6
70°-80°	208.6	5.4
80°-90°	52.0	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°	1203.1	31.3
0°-40°	1910.9	49.6
0°-60°	3181.5	82.7
0°-90°	3849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1627	1622	1608	1620	1618	154
15°	1547	1539	1513	1512	1501	436
25°	1403	1384	1339	1323	1309	646
35°	1208	1179	1123	1088	1070	757
45°	989	954	886	837	818	763
55°	751	711	642	587	567	671
65°	508	466	401	352	333	503
75°	271	234	182	155	146	286
85°	68	45	40	38	37	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.2	1629.2	1629.2	1629.2	1629.2
2.5°	1632.9	1629.2	1616.9	1629.2	1627.8
5°	1626.7	1621.9	1608.2	1620.3	1617.8
7.5°	1614.4	1609.3	1593.4	1603.2	1600.9
10°	1595.9	1592.2	1574.9	1578.8	1574.9
12.5°	1574.9	1569.9	1545.2	1547.7	1541.8
15°	1546.8	1539.3	1513.3	1512.1	1501.2
17.5°	1517.1	1506.2	1475.1	1469.2	1460.5
20°	1481.3	1469.2	1429.7	1423.6	1412.6
22.5°	1442.0	1429.7	1388.2	1374.5	1365.6
25°	1402.6	1384.1	1338.6	1322.7	1309.2
27.5°	1358.5	1336.1	1288.2	1267.4	1254.0
30°	1309.2	1285.9	1234.1	1206.0	1194.9
32.5°	1261.0	1233.0	1180.0	1148.1	1133.5
35°	1208.3	1178.9	1123.4	1087.8	1070.5
37.5°	1157.9	1122.0	1065.4	1023.9	1006.3
40°	1103.8	1066.8	1007.7	960.9	946.3
42.5°	1047.0	1008.8	947.2	903.2	879.7
45°	989.2	953.8	885.8	836.7	818.3
47.5°	928.7	892.2	824.2	774.0	753.0
50°	872.3	831.7	761.6	710.1	691.6
52.5°	810.7	769.2	703.7	647.1	628.6
55°	750.7	711.2	642.5	587.0	567.4
57.5°	689.1	647.1	580.9	526.6	509.4
60°	630.0	587.0	520.4	466.3	447.8
62.5°	567.4	526.6	459.0	409.7	391.2
65°	508.3	466.3	401.3	351.7	333.2
67.5°	449.0	407.4	344.4	297.9	283.3
70°	388.9	346.9	285.3	247.2	232.6
72.5°	329.8	289.2	232.6	198.1	189.7
75°	270.7	233.7	182.1	155.2	146.5
77.5°	210.2	180.8	137.6	117.1	109.6
80°	160.0	130.6	96.1	84.9	82.6
82.5°	110.7	84.9	64.1	60.0	59.1
85°	67.6	45.4	39.5	38.1	37.0
87.5°	28.5	19.6	18.5	18.5	17.1
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)