

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: P888511

Luminaire Tested: **DPT5-6FO55-109S27-F-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: P888511
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: DPT5-6FO55-109S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

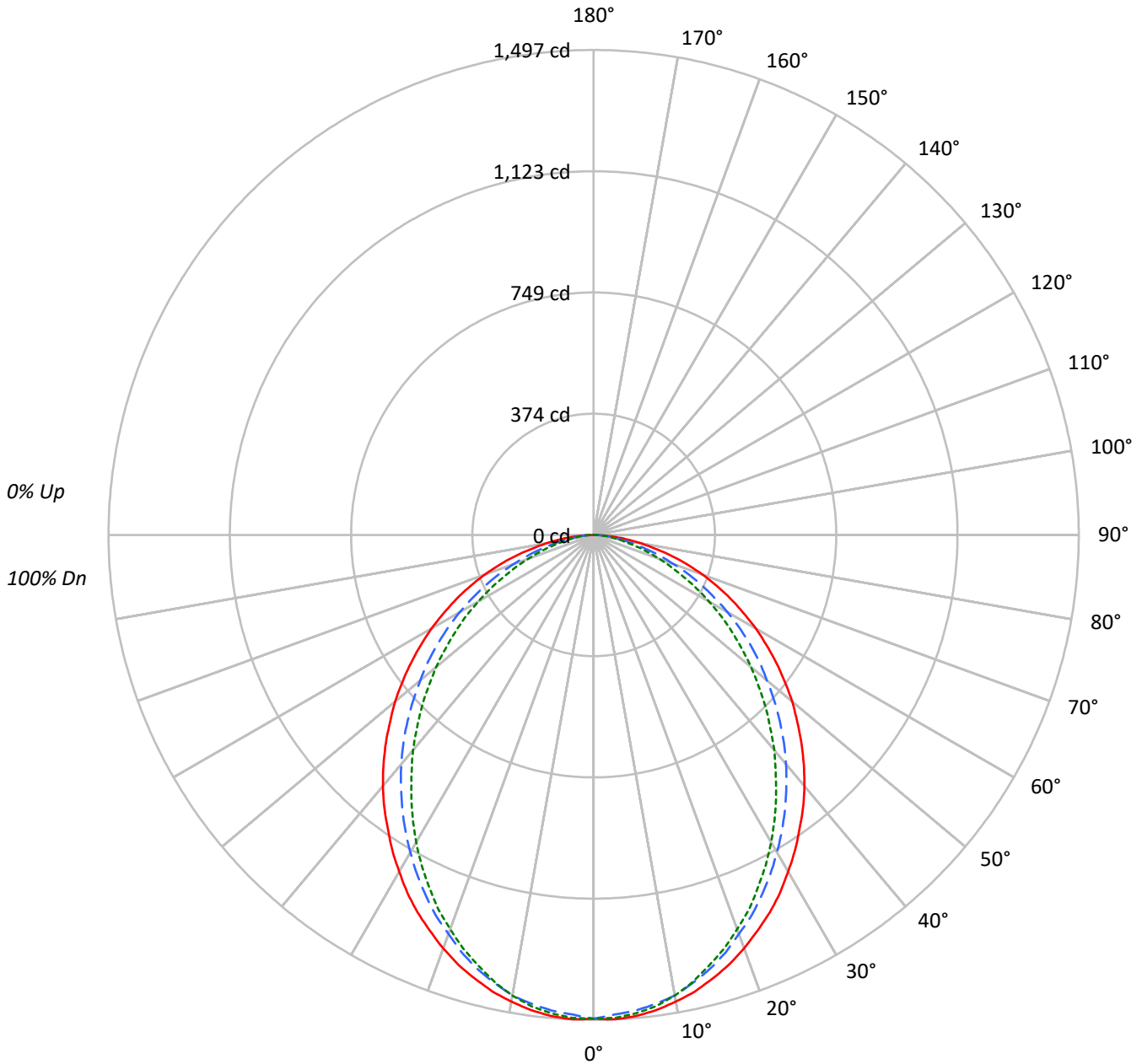
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3528.0 lumens
Efficiency: N/A
Efficacy: 91.4 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°	9537	9537	9537
5°	9558	9450	9506
10°	9486	9361	9361
15°	9374	9171	9098
20°	9228	8906	8800
25°	9059	8646	8456
30°	8849	8342	8076
35°	8635	8028	7650
40°	8434	7701	7231
45°	8189	7333	6774
50°	7944	6936	6298
55°	7661	6557	5791
60°	7375	6093	5243
65°	7040	5558	4615
70°	6657	4883	3981
75°	6122	4118	3314
80°	5395	3240	2784
85°	4536	2653	2484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	4.0
10°-20°	392.7	11.1
20°-30°	569.5	16.1
30°-40°	648.8	18.4
40°-50°	632.4	17.9
50°-60°	532.2	15.1
60°-70°	372.9	10.6
70°-80°	191.2	5.4
80°-90°	47.7	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°	1102.8	31.3
0°-40°	1751.6	49.6
0°-60°	2916.2	82.7
0°-90°	3528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1491	1487	1474	1485	1483	141
15°	1418	1411	1387	1386	1376	400
25°	1286	1269	1227	1212	1200	592
35°	1108	1081	1030	997	981	694
45°	907	874	812	767	750	699
55°	688	652	589	538	520	615
65°	466	427	368	322	305	461
75°	248	214	167	142	134	262
85°	62	42	36	35	34	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493.3	1493.3	1493.3	1493.3	1493.3
2.5°	1496.7	1493.3	1482.0	1493.3	1492.1
5°	1491.0	1486.6	1474.1	1485.2	1482.9
7.5°	1479.7	1475.1	1460.5	1469.5	1467.4
10°	1462.8	1459.4	1443.5	1447.1	1443.5
12.5°	1443.5	1438.9	1416.3	1418.6	1413.2
15°	1417.8	1410.9	1387.1	1386.0	1376.0
17.5°	1390.6	1380.6	1352.1	1346.7	1338.7
20°	1357.8	1346.7	1310.5	1304.8	1294.8
22.5°	1321.8	1310.5	1272.4	1259.9	1251.7
25°	1285.6	1268.6	1227.0	1212.4	1200.0
27.5°	1245.2	1224.7	1180.8	1161.7	1149.4
30°	1200.0	1178.7	1131.2	1105.5	1095.2
32.5°	1155.9	1130.1	1081.6	1052.3	1038.9
35°	1107.6	1080.6	1029.7	997.1	981.2
37.5°	1061.3	1028.5	976.6	938.5	922.4
40°	1011.7	977.8	923.7	880.8	867.4
42.5°	959.6	924.7	868.2	827.8	806.3
45°	906.7	874.3	811.9	767.0	750.0
47.5°	851.3	817.8	755.5	709.4	690.2
50°	799.6	762.4	698.1	650.8	633.9
52.5°	743.1	705.0	645.0	593.1	576.2
55°	688.1	651.9	588.9	538.1	520.1
57.5°	631.6	593.1	532.4	482.6	467.0
60°	577.4	538.1	477.0	427.4	410.5
62.5°	520.1	482.6	420.7	375.5	358.6
65°	465.9	427.4	367.8	322.4	305.4
67.5°	411.5	373.4	315.7	273.0	259.6
70°	356.5	318.0	261.5	226.6	213.2
72.5°	302.3	265.1	213.2	181.6	173.9
75°	248.1	214.2	166.9	142.3	134.3
77.5°	192.7	165.7	126.2	107.3	100.4
80°	146.7	119.7	88.1	77.8	75.7
82.5°	101.5	77.8	58.8	55.0	54.2
85°	61.9	41.6	36.2	34.9	33.9
87.5°	26.2	18.0	16.9	16.9	15.7
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)