

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: P888513

Luminaire Tested: **DPT5-6FO55-109S35-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: P888513
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: DPT5-6FO55-109S35-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

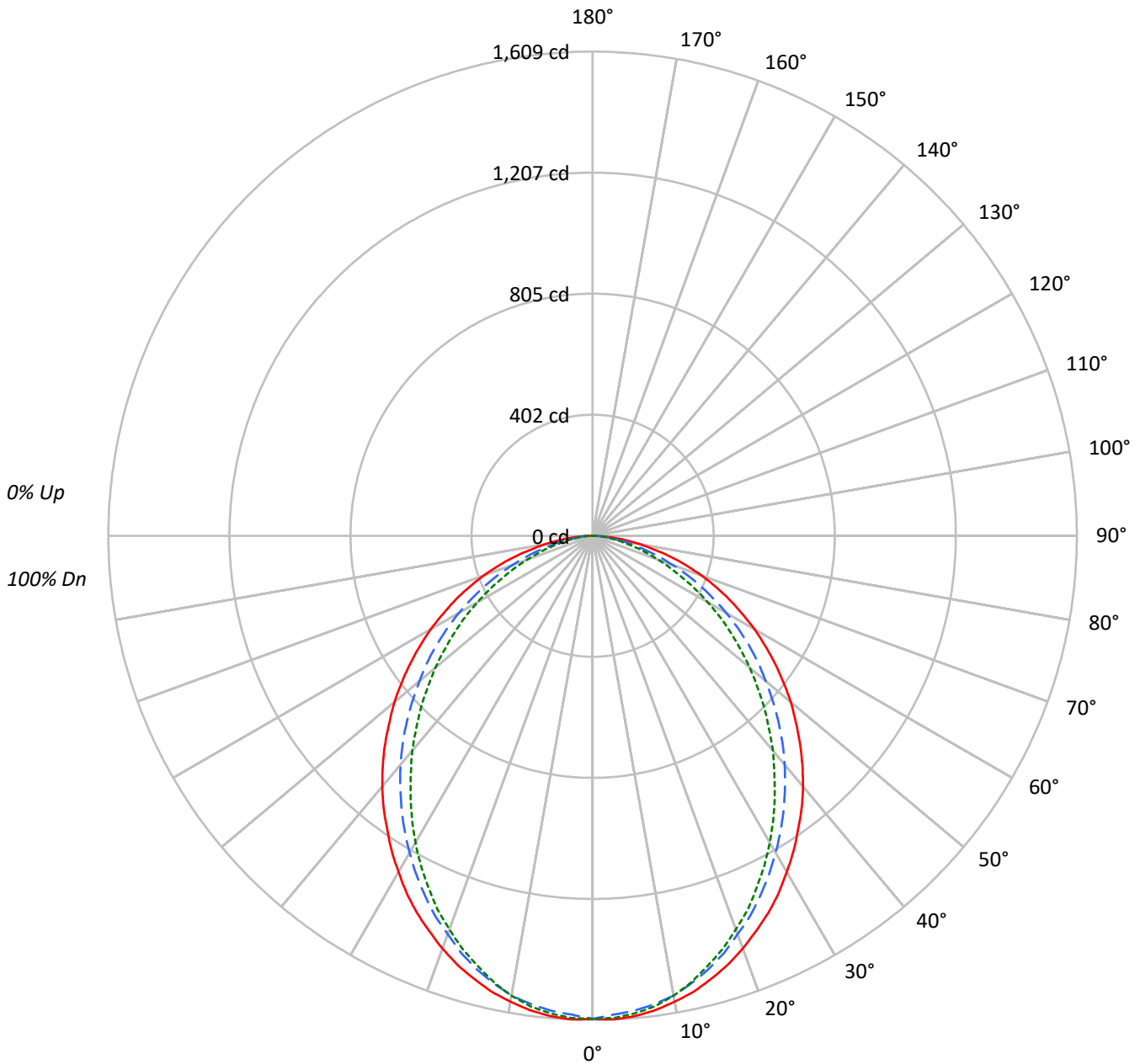
Lumens per Lamp: N/A
Luminaire Lumens: 3792.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

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°	10251	10251	10251
5°	10274	10157	10217
10°	10195	10062	10062
15°	10075	9857	9778
20°	9918	9572	9458
25°	9737	9293	9089
30°	9511	8966	8681
35°	9281	8629	8222
40°	9065	8277	7772
45°	8802	7882	7280
50°	8538	7455	6769
55°	8235	7048	6224
60°	7927	6549	5635
65°	7568	5973	4961
70°	7155	5249	4278
75°	6581	4427	3563
80°	5796	3483	2994
85°	4880	2850	2667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	4.0
10°-20°	422.1	11.1
20°-30°	612.1	16.1
30°-40°	697.4	18.4
40°-50°	679.7	17.9
50°-60°	572.0	15.1
60°-70°	400.8	10.6
70°-80°	205.5	5.4
80°-90°	51.3	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°	1185.3	31.3
0°-40°	1882.6	49.6
0°-60°	3134.4	82.7
0°-90°	3792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1603	1598	1584	1596	1594	152
15°	1524	1516	1491	1490	1479	430
25°	1382	1364	1319	1303	1290	636
35°	1190	1161	1107	1072	1055	745
45°	975	940	873	824	806	752
55°	740	701	633	578	559	661
65°	501	459	395	346	328	496
75°	267	230	179	153	144	282
85°	67	45	39	38	36	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.1	1605.1	1605.1	1605.1	1605.1
2.5°	1608.7	1605.1	1592.9	1605.1	1603.7
5°	1602.6	1597.9	1584.4	1596.3	1593.8
7.5°	1590.5	1585.5	1569.8	1579.4	1577.2
10°	1572.2	1568.6	1551.6	1555.4	1551.6
12.5°	1551.6	1546.6	1522.3	1524.8	1519.0
15°	1523.9	1516.5	1490.8	1489.7	1478.9
17.5°	1494.7	1483.9	1453.3	1447.4	1438.9
20°	1459.4	1447.4	1408.5	1402.5	1391.7
22.5°	1420.7	1408.5	1367.6	1354.1	1345.4
25°	1381.8	1363.6	1318.8	1303.1	1289.8
27.5°	1338.4	1316.4	1269.1	1248.7	1235.4
30°	1289.8	1266.9	1215.8	1188.2	1177.2
32.5°	1242.4	1214.7	1162.5	1131.1	1116.7
35°	1190.4	1161.4	1106.8	1071.7	1054.6
37.5°	1140.7	1105.4	1049.7	1008.7	991.4
40°	1087.4	1051.0	992.8	946.7	932.3
42.5°	1031.4	993.9	933.2	889.8	866.6
45°	974.6	939.7	872.7	824.4	806.1
47.5°	915.0	879.0	812.0	762.5	741.8
50°	859.4	819.4	750.4	699.6	681.3
52.5°	798.7	757.8	693.3	637.5	619.3
55°	739.6	700.7	633.0	578.3	559.0
57.5°	678.9	637.5	572.3	518.8	501.9
60°	620.6	578.3	512.7	459.4	441.2
62.5°	559.0	518.8	452.2	403.6	385.4
65°	500.8	459.4	395.3	346.5	328.3
67.5°	442.3	401.4	339.3	293.4	279.1
70°	383.2	341.8	281.1	243.5	229.1
72.5°	324.9	284.9	229.1	195.2	186.9
75°	266.7	230.3	179.4	152.9	144.4
77.5°	207.1	178.1	135.6	115.4	107.9
80°	157.6	128.6	94.7	83.6	81.4
82.5°	109.1	83.6	63.2	59.1	58.2
85°	66.6	44.7	38.9	37.6	36.4
87.5°	28.1	19.3	18.2	18.2	16.9
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)