

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: P888246

Luminaire Tested: **DPT5-6FO55-109V60-A-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: P888246
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-A-XX-UDD_6500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

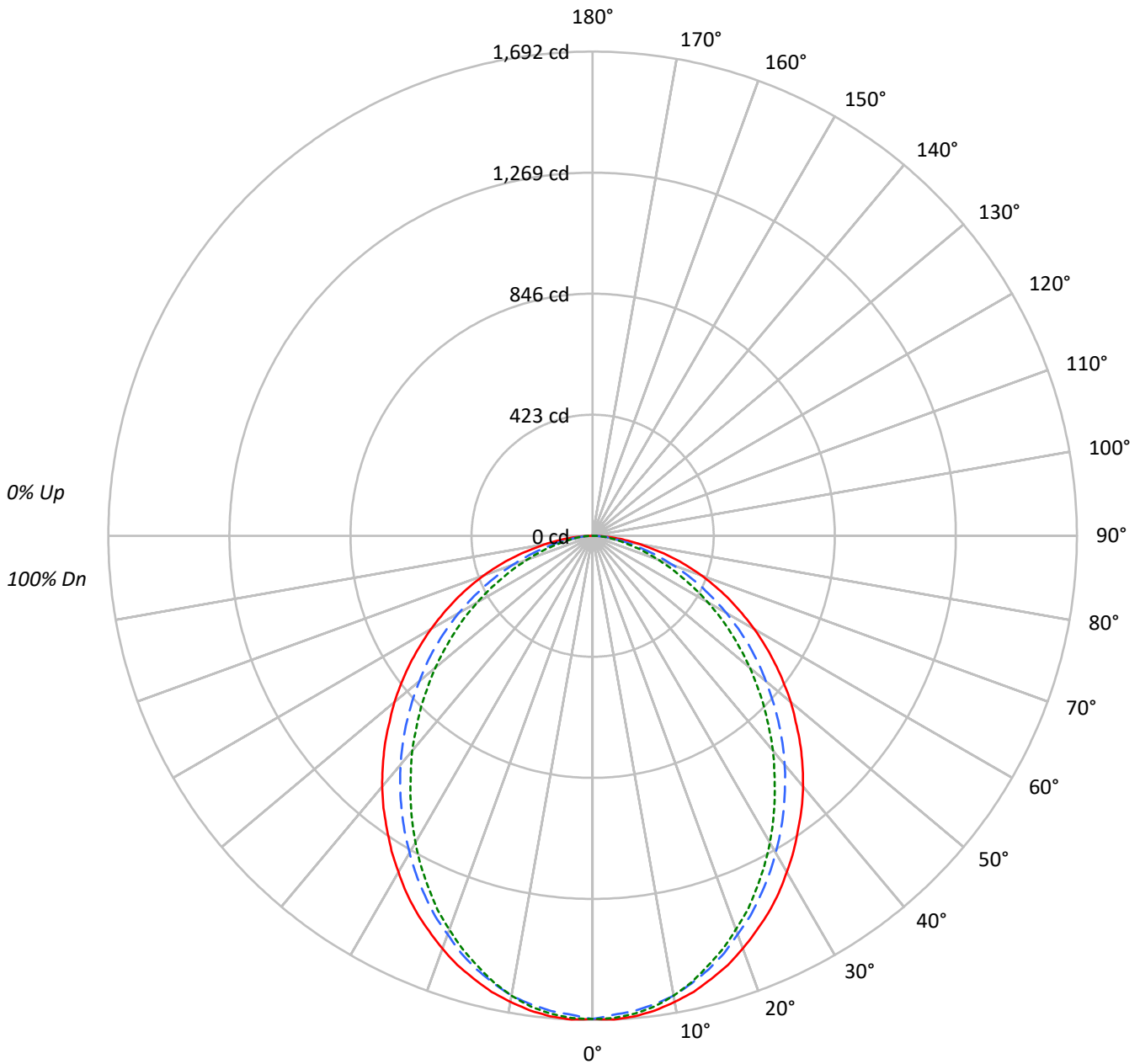
Lumens per Lamp: N/A
Luminaire Lumens: 3989.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	10783	10783	10783
5°	10808	10685	10748
10°	10725	10585	10585
15°	10599	10369	10286
20°	10433	10070	9950
25°	10243	9776	9561
30°	10005	9432	9132
35°	9763	9077	8649
40°	9536	8706	8176
45°	9259	8291	7659
50°	8983	7843	7121
55°	8662	7414	6548
60°	8339	6888	5928
65°	7961	6283	5219
70°	7527	5521	4500
75°	6921	4659	3748
80°	6098	3663	3148
85°	5129	2997	2806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	4.0
10°-20°	444.1	11.1
20°-30°	643.9	16.1
30°-40°	733.6	18.4
40°-50°	715.0	17.9
50°-60°	601.8	15.1
60°-70°	421.7	10.6
70°-80°	216.2	5.4
80°-90°	53.9	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°	1246.9	31.3
0°-40°	1980.5	49.6
0°-60°	3297.2	82.7
0°-90°	3989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1686	1681	1667	1679	1677	160
15°	1603	1595	1568	1567	1556	452
25°	1454	1434	1387	1371	1357	669
35°	1252	1222	1164	1127	1109	784
45°	1025	988	918	867	848	791
55°	778	737	666	608	588	696
65°	527	483	416	364	345	522
75°	280	242	189	161	152	297
85°	70	47	41	40	38	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1692.2	1688.5	1675.7	1688.5	1687.0
5°	1685.9	1680.9	1666.7	1679.2	1676.6
7.5°	1673.1	1667.9	1651.3	1661.5	1659.1
10°	1653.9	1650.1	1632.2	1636.2	1632.2
12.5°	1632.2	1627.0	1601.4	1604.0	1597.9
15°	1603.1	1595.3	1568.3	1567.1	1555.8
17.5°	1572.3	1561.0	1528.8	1522.6	1513.7
20°	1535.2	1522.6	1481.7	1475.3	1464.0
22.5°	1494.5	1481.7	1438.7	1424.5	1415.3
25°	1453.6	1434.4	1387.3	1370.8	1356.8
27.5°	1407.9	1384.7	1335.1	1313.5	1299.6
30°	1356.8	1332.7	1279.0	1249.9	1238.3
32.5°	1306.9	1277.8	1222.9	1189.8	1174.7
35°	1252.3	1221.8	1164.3	1127.4	1109.4
37.5°	1200.0	1162.9	1104.2	1061.1	1042.9
40°	1143.9	1105.6	1044.3	995.9	980.7
42.5°	1085.0	1045.5	981.7	936.0	911.6
45°	1025.2	988.5	918.0	867.2	848.0
47.5°	962.5	924.7	854.2	802.1	780.4
50°	904.1	862.0	789.4	735.9	716.7
52.5°	840.2	797.2	729.3	670.6	651.4
55°	778.0	737.1	665.9	608.4	588.1
57.5°	714.1	670.6	602.0	545.7	528.0
60°	652.9	608.4	539.3	483.3	464.1
62.5°	588.1	545.7	475.7	424.6	405.4
65°	526.8	483.3	415.8	364.5	345.4
67.5°	465.3	422.2	356.9	308.7	293.6
70°	403.1	359.5	295.7	256.2	241.0
72.5°	341.8	299.7	241.0	205.3	196.6
75°	280.5	242.2	188.8	160.9	151.9
77.5°	217.9	187.3	142.6	121.3	113.5
80°	165.8	135.3	99.6	88.0	85.6
82.5°	114.7	88.0	66.5	62.2	61.3
85°	70.0	47.1	40.9	39.5	38.3
87.5°	29.6	20.3	19.2	19.2	17.7
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)