

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: P888245

Luminaire Tested: **DPT5-6FO55-109V60-A-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: P888245
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_5000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

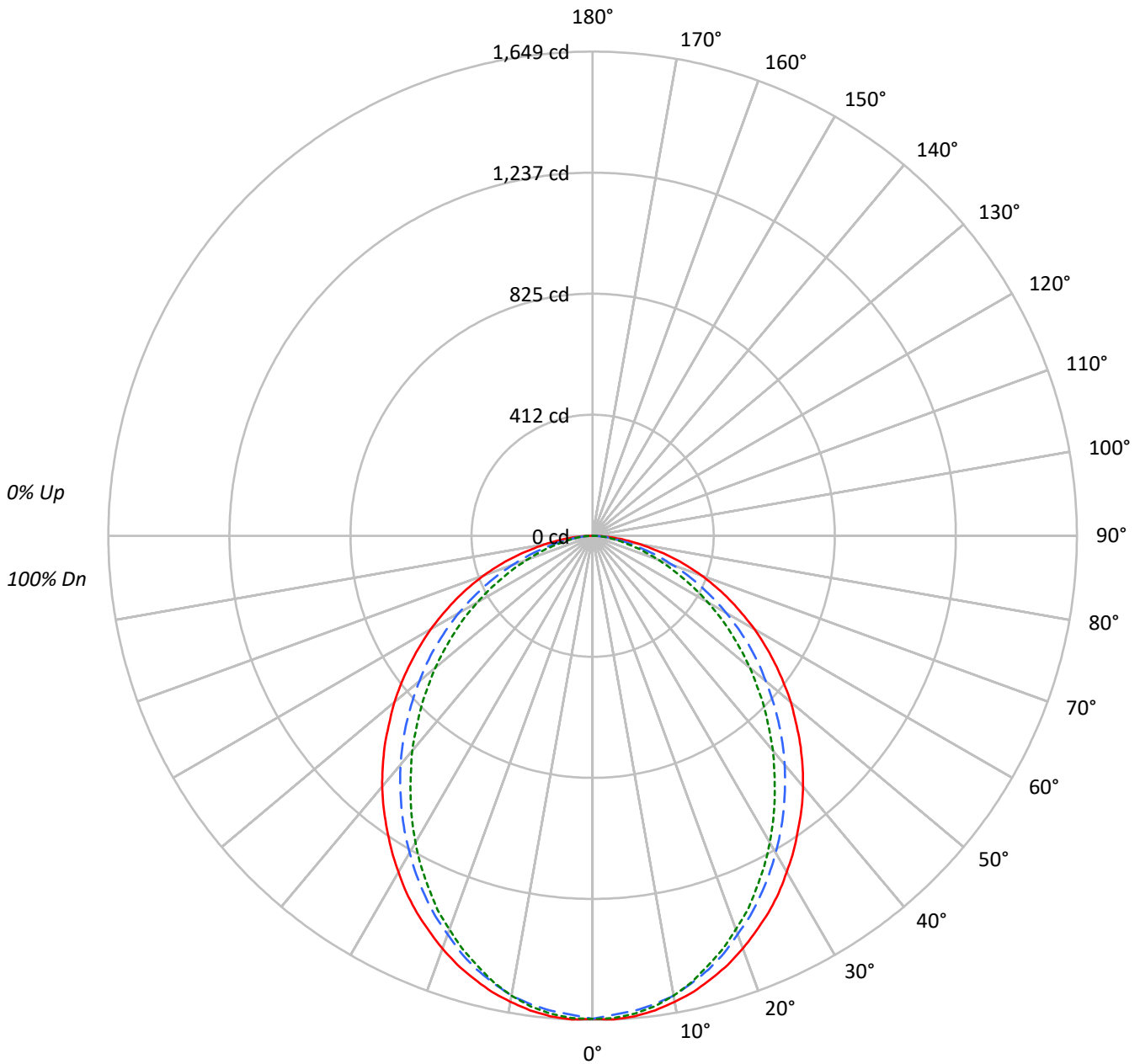
Lumens per Lamp: N/A
Luminaire Lumens: 3887.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	10507	10507	10507
5°	10532	10412	10474
10°	10451	10313	10313
15°	10328	10104	10023
20°	10166	9812	9695
25°	9981	9526	9316
30°	9750	9191	8899
35°	9514	8845	8428
40°	9293	8483	7967
45°	9023	8080	7463
50°	8753	7642	6939
55°	8441	7224	6380
60°	8126	6712	5776
65°	7757	6123	5085
70°	7334	5379	4386
75°	6746	4538	3652
80°	5943	3567	3067
85°	4997	2924	2733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	4.0
10°-20°	432.7	11.1
20°-30°	627.4	16.1
30°-40°	714.8	18.4
40°-50°	696.7	17.9
50°-60°	586.4	15.1
60°-70°	410.9	10.6
70°-80°	210.7	5.4
80°-90°	52.5	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°	1215.0	31.3
0°-40°	1929.8	49.6
0°-60°	3212.9	82.7
0°-90°	3887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1643	1638	1624	1636	1634	156
15°	1562	1554	1528	1527	1516	440
25°	1416	1398	1352	1336	1322	652
35°	1220	1190	1134	1098	1081	764
45°	999	963	895	845	826	770
55°	758	718	649	593	573	678
65°	513	471	405	355	336	508
75°	273	236	184	157	148	289
85°	68	46	40	38	37	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.3	1645.3	1645.3	1645.3	1645.3
2.5°	1649.0	1645.3	1632.8	1645.3	1643.9
5°	1642.8	1637.9	1624.1	1636.3	1633.8
7.5°	1630.3	1625.2	1609.1	1619.0	1616.7
10°	1611.6	1607.9	1590.4	1594.3	1590.4
12.5°	1590.4	1585.4	1560.5	1563.0	1557.0
15°	1562.1	1554.5	1528.2	1527.0	1516.0
17.5°	1532.1	1521.1	1489.7	1483.7	1475.0
20°	1495.9	1483.7	1443.8	1437.6	1426.5
22.5°	1456.3	1443.8	1401.9	1388.1	1379.1
25°	1416.4	1397.7	1351.9	1335.7	1322.1
27.5°	1371.9	1349.3	1300.9	1280.0	1266.4
30°	1322.1	1298.6	1246.3	1217.9	1206.7
32.5°	1273.5	1245.1	1191.7	1159.4	1144.6
35°	1220.3	1190.5	1134.5	1098.5	1081.0
37.5°	1169.3	1133.1	1076.0	1034.0	1016.3
40°	1114.7	1077.3	1017.6	970.4	955.6
42.5°	1057.3	1018.8	956.6	912.1	888.3
45°	999.0	963.2	894.6	845.0	826.3
47.5°	937.9	901.0	832.3	781.6	760.4
50°	881.0	839.9	769.2	717.1	698.4
52.5°	818.7	776.8	710.6	653.5	634.8
55°	758.1	718.2	648.8	592.8	573.0
57.5°	695.9	653.5	586.6	531.8	514.5
60°	636.2	592.8	525.5	470.9	452.2
62.5°	573.0	531.8	463.5	413.7	395.1
65°	513.3	470.9	405.2	355.2	336.5
67.5°	453.4	411.4	347.8	300.8	286.0
70°	392.8	350.4	288.1	249.6	234.9
72.5°	333.1	292.0	234.9	200.1	191.5
75°	273.4	236.0	183.9	156.7	148.0
77.5°	212.3	182.6	139.0	118.2	110.6
80°	161.6	131.8	97.0	85.7	83.4
82.5°	111.8	85.7	64.8	60.6	59.7
85°	68.2	45.9	39.9	38.5	37.3
87.5°	28.8	19.8	18.7	18.7	17.3
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)