

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: P888243

Luminaire Tested: **DPT5-6FO55-109V60-A-XX-UDD_4000K**

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: P888243
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_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

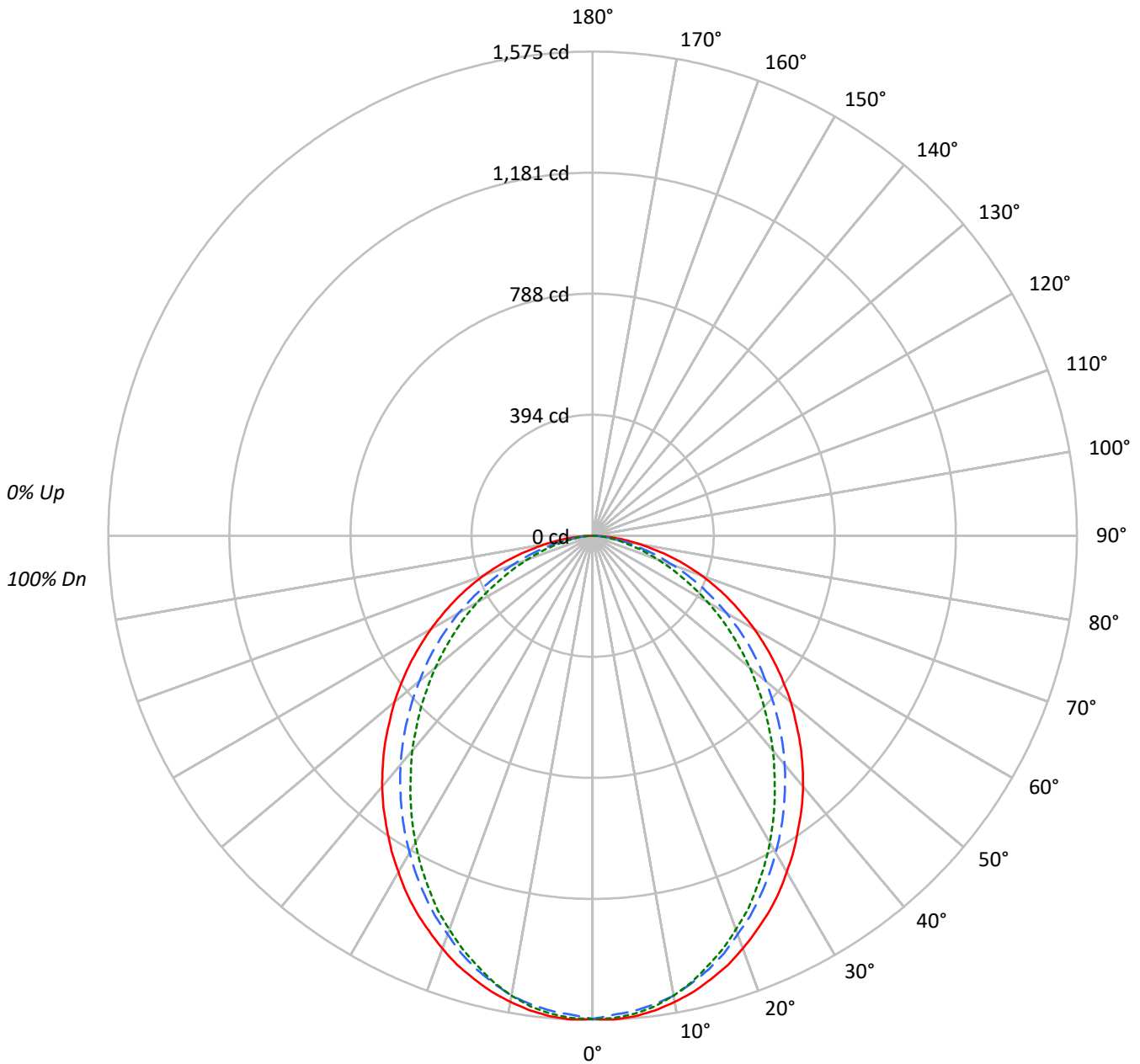
Lumens per Lamp: N/A
Luminaire Lumens: 3713.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	10037	10037	10037
5°	10060	9946	10005
10°	9983	9852	9852
15°	9866	9652	9574
20°	9712	9373	9261
25°	9534	9099	8899
30°	9313	8779	8500
35°	9087	8449	8050
40°	8877	8104	7611
45°	8619	7718	7129
50°	8361	7299	6628
55°	8063	6901	6095
60°	7762	6412	5518
65°	7409	5850	4858
70°	7006	5139	4190
75°	6443	4335	3489
80°	5675	3409	2931
85°	4778	2792	2616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	4.0
10°-20°	413.3	11.1
20°-30°	599.3	16.1
30°-40°	682.8	18.4
40°-50°	665.5	17.9
50°-60°	560.1	15.1
60°-70°	392.5	10.6
70°-80°	201.3	5.4
80°-90°	50.2	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°	1160.6	31.3
0°-40°	1843.4	49.6
0°-60°	3069.1	82.7
0°-90°	3713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1569	1565	1551	1563	1561	149
15°	1492	1485	1460	1459	1448	421
25°	1353	1335	1291	1276	1263	623
35°	1166	1137	1084	1049	1033	730
45°	954	920	854	807	789	736
55°	724	686	620	566	547	647
65°	490	450	387	339	322	485
75°	261	226	176	150	141	276
85°	65	44	38	37	36	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571.6	1571.6	1571.6	1571.6	1571.6
2.5°	1575.2	1571.6	1559.7	1571.6	1570.3
5°	1569.2	1564.6	1551.4	1563.1	1560.6
7.5°	1557.3	1552.5	1537.1	1546.5	1544.3
10°	1539.5	1536.0	1519.2	1523.0	1519.2
12.5°	1519.2	1514.4	1490.6	1493.0	1487.3
15°	1492.2	1484.9	1459.8	1458.7	1448.1
17.5°	1463.5	1453.0	1423.0	1417.3	1408.9
20°	1429.0	1417.3	1379.2	1373.3	1362.7
22.5°	1391.1	1379.2	1339.1	1325.9	1317.3
25°	1353.0	1335.2	1291.3	1275.9	1262.9
27.5°	1310.5	1288.9	1242.7	1222.7	1209.7
30°	1262.9	1240.5	1190.5	1163.4	1152.6
32.5°	1216.5	1189.4	1138.3	1107.5	1093.4
35°	1165.6	1137.2	1083.7	1049.4	1032.6
37.5°	1117.0	1082.4	1027.8	987.7	970.8
40°	1064.8	1029.1	972.1	927.0	912.9
42.5°	1010.0	973.2	913.7	871.2	848.6
45°	954.3	920.1	854.5	807.2	789.3
47.5°	895.9	860.7	795.1	746.6	726.4
50°	841.5	802.3	734.7	685.0	667.1
52.5°	782.1	742.0	678.8	624.2	606.4
55°	724.2	686.1	619.8	566.3	547.4
57.5°	664.7	624.2	560.4	508.0	491.4
60°	607.7	566.3	502.0	449.8	432.0
62.5°	547.4	508.0	442.8	395.2	377.4
65°	490.3	449.8	387.1	339.3	321.5
67.5°	433.1	393.0	332.3	287.3	273.2
70°	375.2	334.7	275.2	238.5	224.4
72.5°	318.2	279.0	224.4	191.1	183.0
75°	261.1	225.5	175.7	149.7	141.4
77.5°	202.8	174.4	132.8	113.0	105.7
80°	154.3	125.9	92.7	81.9	79.7
82.5°	106.8	81.9	61.9	57.9	57.0
85°	65.2	43.8	38.1	36.8	35.7
87.5°	27.5	18.9	17.8	17.8	16.5
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)