

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: P888518

Luminaire Tested: **DPT5-6FO55-109V60-F-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: P888518  
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-F-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

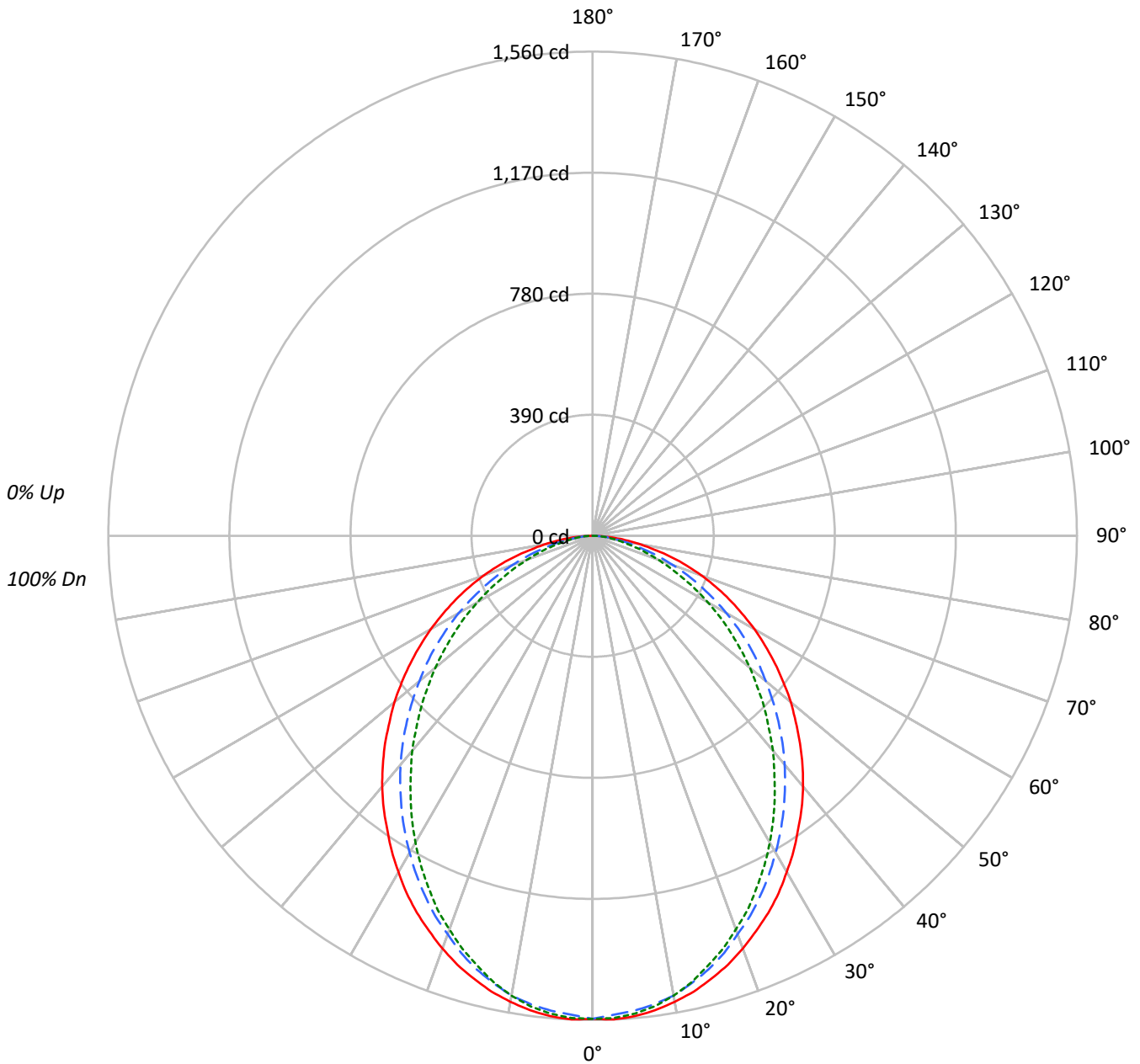
Lumens per Lamp: N/A  
Luminaire Lumens: 3677.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				20				20	
RC	80				70				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				100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61				61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53				53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36				36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33				33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29				29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27				27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9940	9940	9940
5°	9962	9849	9908
10°	9887	9756	9756
15°	9770	9558	9482
20°	9617	9282	9171
25°	9442	9011	8813
30°	9223	8694	8418
35°	8999	8367	7972
40°	8791	8026	7536
45°	8535	7643	7060
50°	8280	7229	6564
55°	7984	6834	6036
60°	7687	6349	5464
65°	7338	5792	4810
70°	6937	5090	4149
75°	6381	4293	3454
80°	5620	3376	2902
85°	4726	2762	2587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	4.0
10°-20°	409.3	11.1
20°-30°	593.5	16.1
30°-40°	676.2	18.4
40°-50°	659.1	17.9
50°-60°	554.7	15.1
60°-70°	388.7	10.6
70°-80°	199.3	5.4
80°-90°	49.7	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°	1149.3	31.3
0°-40°	1825.6	49.6
0°-60°	3039.3	82.7
0°-90°	3677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3677.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1554	1549	1536	1548	1546	147
15°	1478	1470	1446	1444	1434	417
25°	1340	1322	1279	1264	1251	617
35°	1154	1126	1073	1039	1023	723
45°	945	911	846	799	782	729
55°	717	679	614	561	542	641
65°	486	446	383	336	318	481
75°	259	223	174	148	140	273
85°	64	43	38	36	35	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1556.4	1556.4	1556.4	1556.4	1556.4
2.5°	1559.9	1556.4	1544.6	1556.4	1555.1
5°	1554.0	1549.4	1536.3	1547.9	1545.5
7.5°	1542.2	1537.4	1522.2	1531.5	1529.4
10°	1524.6	1521.1	1504.5	1508.2	1504.5
12.5°	1504.5	1499.7	1476.2	1478.6	1472.9
15°	1477.7	1470.5	1445.6	1444.5	1434.1
17.5°	1449.3	1438.9	1409.2	1403.6	1395.3
20°	1415.1	1403.6	1365.8	1359.9	1349.5
22.5°	1377.6	1365.8	1326.1	1313.1	1304.6
25°	1339.9	1322.2	1278.8	1263.6	1250.7
27.5°	1297.8	1276.4	1230.6	1210.8	1197.9
30°	1250.7	1228.5	1179.0	1152.1	1141.5
32.5°	1204.7	1177.9	1127.3	1096.8	1082.8
35°	1154.3	1126.2	1073.2	1039.2	1022.6
37.5°	1106.1	1071.9	1017.8	978.1	961.4
40°	1054.5	1019.1	962.7	918.0	904.0
42.5°	1000.2	963.8	904.9	862.8	840.3
45°	945.0	911.2	846.2	799.4	781.7
47.5°	887.2	852.3	787.4	739.4	719.3
50°	833.4	794.6	727.6	678.3	660.7
52.5°	774.5	734.8	672.2	618.2	600.5
55°	717.1	679.4	613.8	560.8	542.1
57.5°	658.3	618.2	554.9	503.0	486.7
60°	601.8	560.8	497.1	445.5	427.8
62.5°	542.1	503.0	438.5	391.4	373.7
65°	485.6	445.5	383.3	336.0	318.3
67.5°	428.9	389.2	329.0	284.5	270.6
70°	371.5	331.4	272.6	236.1	222.2
72.5°	315.1	276.3	222.2	189.3	181.2
75°	258.6	223.3	174.0	148.3	140.0
77.5°	200.8	172.7	131.5	111.9	104.7
80°	152.8	124.7	91.8	81.1	78.9
82.5°	105.8	81.1	61.3	57.3	56.5
85°	64.5	43.4	37.7	36.4	35.3
87.5°	27.3	18.8	17.7	17.7	16.4
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)