

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: P888191

Luminaire Tested: **DPT5-6FO44-109V60-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: P888191  
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: DPT5-6FO44-109V60-A-XX-UDD\_6500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

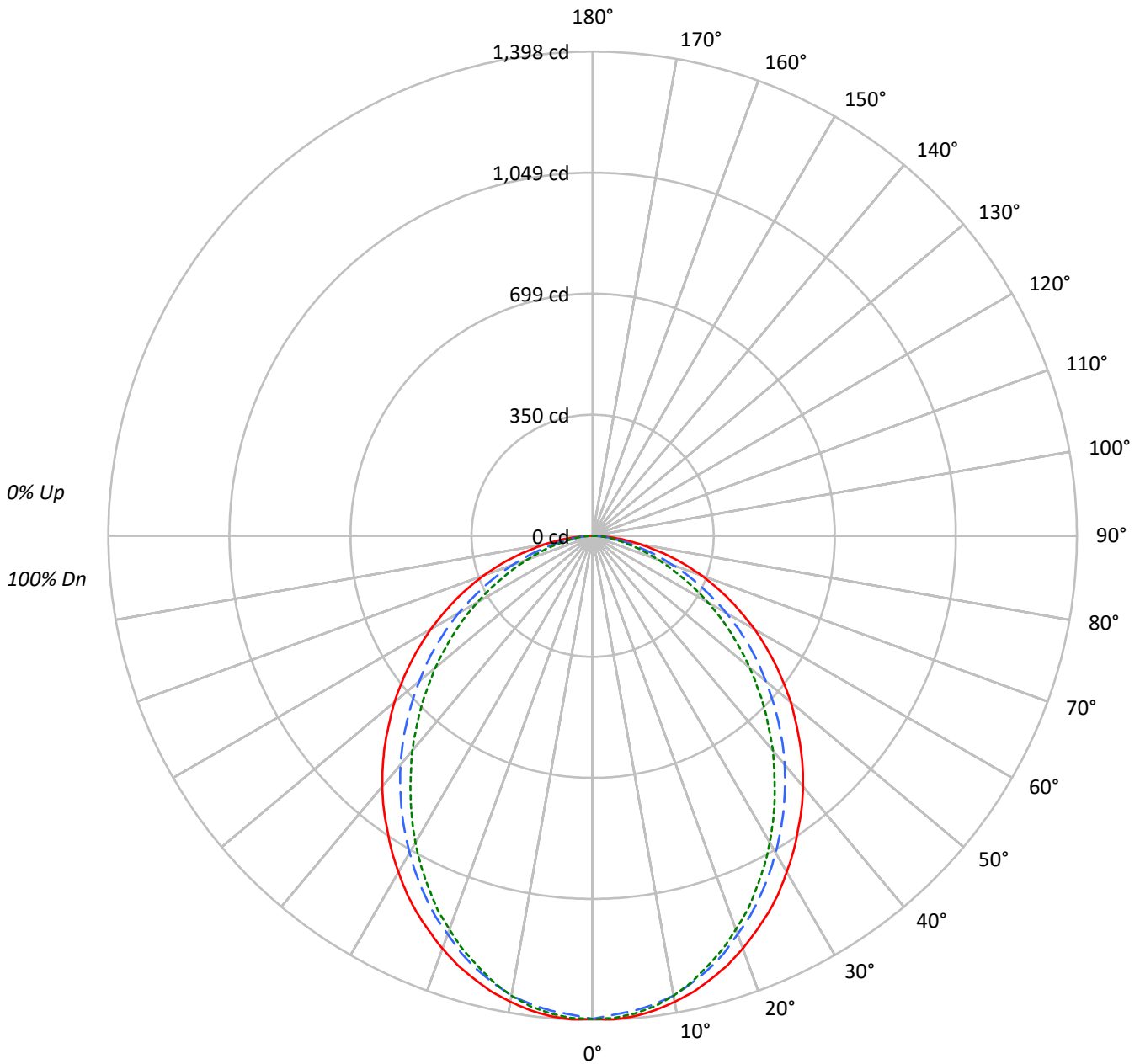
Lumens per Lamp: N/A  
Luminaire Lumens: 3295.0 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.8  
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°	10782	10782	10782
5°	10807	10684	10747
10°	10725	10583	10583
15°	10598	10368	10285
20°	10433	10069	9949
25°	10242	9775	9560
30°	10005	9431	9131
35°	9762	9076	8649
40°	9536	8706	8175
45°	9258	8290	7659
50°	8982	7842	7120
55°	8661	7413	6546
60°	8338	6888	5928
65°	7959	6284	5219
70°	7525	5520	4500
75°	6921	4657	3746
80°	6099	3664	3148
85°	5127	2998	2812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	4.0
10°-20°	366.8	11.1
20°-30°	531.9	16.1
30°-40°	606.0	18.4
40°-50°	590.6	17.9
50°-60°	497.1	15.1
60°-70°	348.3	10.6
70°-80°	178.6	5.4
80°-90°	44.5	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°	1029.9	31.3
0°-40°	1635.9	49.6
0°-60°	2723.6	82.7
0°-90°	3295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3295.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1393	1388	1377	1387	1385	132
15°	1324	1318	1295	1294	1285	373
25°	1201	1185	1146	1132	1121	553
35°	1034	1009	962	931	916	648
45°	847	816	758	716	700	653
55°	643	609	550	502	486	575
65°	435	399	344	301	285	431
75°	232	200	156	133	125	245
85°	58	39	34	33	32	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1394.7	1394.7	1394.7	1394.7	1394.7
2.5°	1397.8	1394.7	1384.2	1394.7	1393.5
5°	1392.6	1388.5	1376.7	1387.1	1384.9
7.5°	1382.0	1377.7	1364.0	1372.4	1370.5
10°	1366.2	1363.1	1348.2	1351.5	1348.2
12.5°	1348.2	1343.9	1322.8	1325.0	1319.9
15°	1324.2	1317.7	1295.4	1294.5	1285.1
17.5°	1298.8	1289.4	1262.8	1257.7	1250.3
20°	1268.1	1257.7	1223.9	1218.7	1209.3
22.5°	1234.5	1223.9	1188.4	1176.6	1169.0
25°	1200.7	1184.9	1146.0	1132.3	1120.8
27.5°	1163.0	1143.8	1102.8	1085.0	1073.5
30°	1120.8	1100.8	1056.5	1032.5	1022.9
32.5°	1079.5	1055.5	1010.2	982.8	970.3
35°	1034.4	1009.2	961.7	931.2	916.4
37.5°	991.2	960.5	912.1	876.5	861.5
40°	944.9	913.3	862.7	822.6	810.1
42.5°	896.3	863.6	810.9	773.2	753.0
45°	846.8	816.5	758.3	716.3	700.5
47.5°	795.0	763.8	705.6	662.6	644.6
50°	746.8	712.0	652.0	607.9	592.0
52.5°	694.0	658.5	602.4	553.9	538.1
55°	642.6	608.8	550.0	502.5	485.7
57.5°	589.9	553.9	497.3	450.8	436.1
60°	539.3	502.5	445.5	399.2	383.4
62.5°	485.7	450.8	392.9	350.7	334.9
65°	435.1	399.2	343.5	301.1	285.3
67.5°	384.3	348.8	294.8	255.0	242.5
70°	332.9	297.0	244.2	211.6	199.1
72.5°	282.3	247.6	199.1	169.6	162.4
75°	231.7	200.1	155.9	132.9	125.4
77.5°	180.0	154.8	117.8	100.2	93.8
80°	137.0	111.8	82.3	72.7	70.7
82.5°	94.8	72.7	54.9	51.4	50.6
85°	57.8	38.9	33.8	32.6	31.7
87.5°	24.4	16.8	15.8	15.8	14.7
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)