

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: P888411

Luminaire Tested: **DPT5-6FO36-109V60-F-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: P888411  
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: DPT5-6FO36-109V60-F-XX-UDD\_6500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

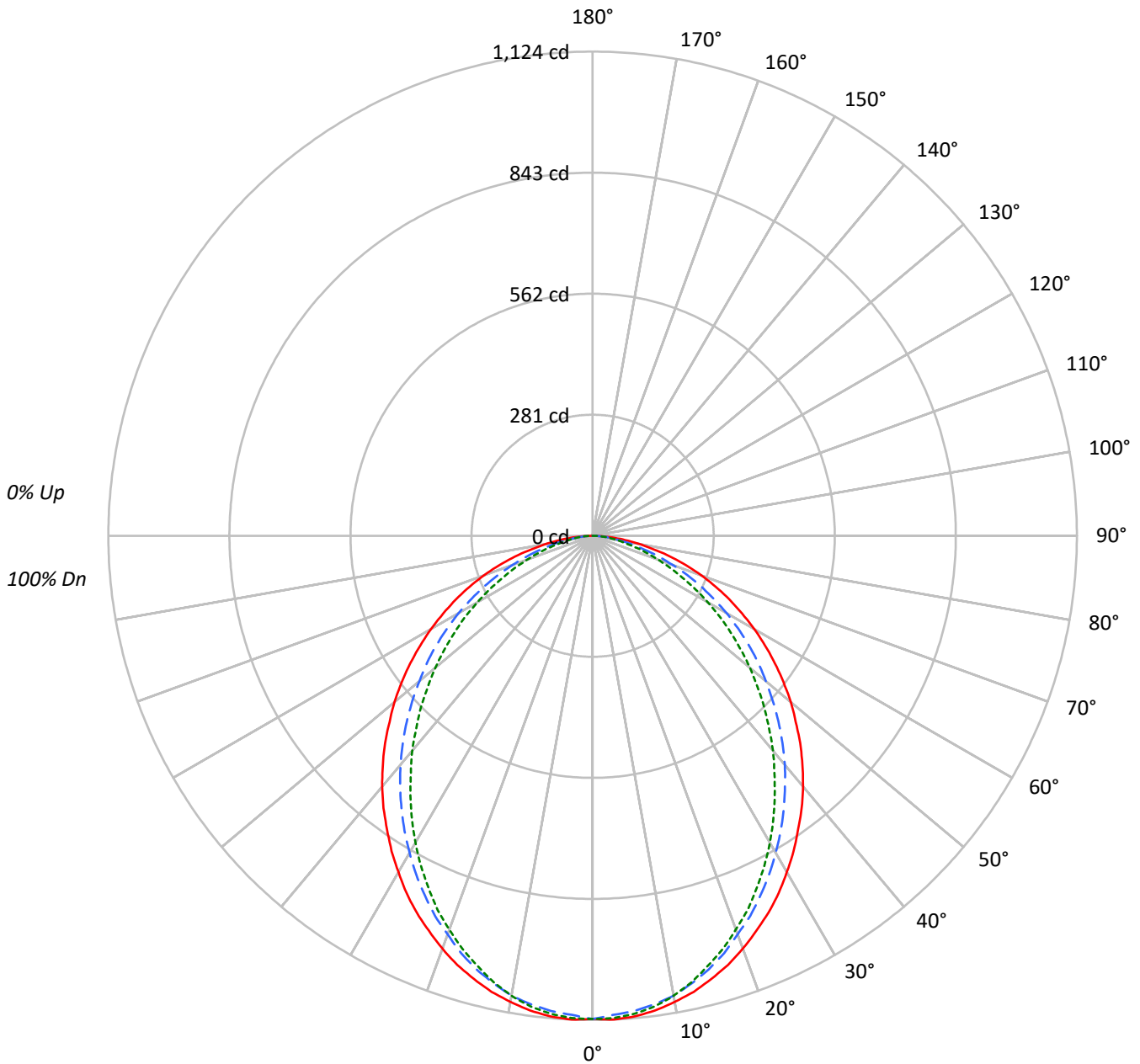
Lumens per Lamp: N/A  
Luminaire Lumens: 2650.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.7  
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									
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°	10668	10668	10668
5°	10693	10570	10633
10°	10610	10471	10471
15°	10486	10259	10176
20°	10322	9962	9844
25°	10133	9671	9459
30°	9899	9331	9034
35°	9659	8981	8557
40°	9434	8614	8088
45°	9161	8203	7578
50°	8886	7759	7044
55°	8569	7335	6478
60°	8249	6815	5864
65°	7876	6218	5162
70°	7447	5461	4452
75°	6849	4608	3708
80°	6036	3626	3116
85°	5074	2968	2783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	4.0
10°-20°	295.0	11.1
20°-30°	427.7	16.1
30°-40°	487.3	18.4
40°-50°	475.0	17.9
50°-60°	399.8	15.1
60°-70°	280.1	10.6
70°-80°	143.6	5.4
80°-90°	35.8	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°	828.3	31.3
0°-40°	1315.6	49.6
0°-60°	2190.4	82.7
0°-90°	2650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2650.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1120	1117	1107	1116	1114	106
15°	1065	1060	1042	1041	1034	300
25°	966	953	922	911	901	444
35°	832	812	774	749	737	521
45°	681	657	610	576	563	525
55°	517	490	442	404	391	462
65°	350	321	276	242	229	347
75°	186	161	125	107	101	197
85°	46	31	27	26	26	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1121.7	1121.7	1121.7	1121.7	1121.7
2.5°	1124.2	1121.7	1113.2	1121.7	1120.7
5°	1120.0	1116.7	1107.2	1115.6	1113.8
7.5°	1111.5	1108.0	1097.0	1103.8	1102.2
10°	1098.7	1096.2	1084.3	1087.0	1084.3
12.5°	1084.3	1080.8	1063.9	1065.6	1061.5
15°	1065.0	1059.8	1041.9	1041.1	1033.5
17.5°	1044.5	1037.0	1015.6	1011.5	1005.6
20°	1019.9	1011.5	984.3	980.1	972.6
22.5°	992.8	984.3	955.7	946.3	940.2
25°	965.6	952.9	921.6	910.6	901.4
27.5°	935.3	919.9	886.9	872.6	863.3
30°	901.4	885.3	849.7	830.3	822.6
32.5°	868.2	848.9	812.4	790.4	780.4
35°	831.9	811.6	773.5	748.9	737.0
37.5°	797.2	772.5	733.5	704.9	692.8
40°	759.9	734.5	693.8	661.6	651.5
42.5°	720.8	694.6	652.1	621.8	605.6
45°	681.1	656.7	609.9	576.1	563.4
47.5°	639.4	614.3	567.4	532.9	518.4
50°	600.6	572.6	524.4	488.9	476.1
52.5°	558.2	529.6	484.5	445.5	432.8
55°	516.8	489.7	442.4	404.2	390.7
57.5°	474.4	445.5	399.9	362.5	350.7
60°	433.7	404.2	358.3	321.0	308.3
62.5°	390.7	362.5	316.0	282.1	269.3
65°	350.0	321.0	276.3	242.2	229.4
67.5°	309.1	280.5	237.1	205.1	195.0
70°	267.8	238.9	196.4	170.2	160.1
72.5°	227.1	199.1	160.1	136.4	130.6
75°	186.4	160.9	125.4	106.9	100.9
77.5°	144.7	124.5	94.8	80.6	75.4
80°	110.2	89.9	66.2	58.5	56.9
82.5°	76.2	58.5	44.2	41.3	40.7
85°	46.5	31.3	27.2	26.2	25.5
87.5°	19.6	13.5	12.7	12.7	11.8
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)