

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: P888410

Luminaire Tested: **DPT5-6FO36-109V60-F-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: P888410  
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\_5000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

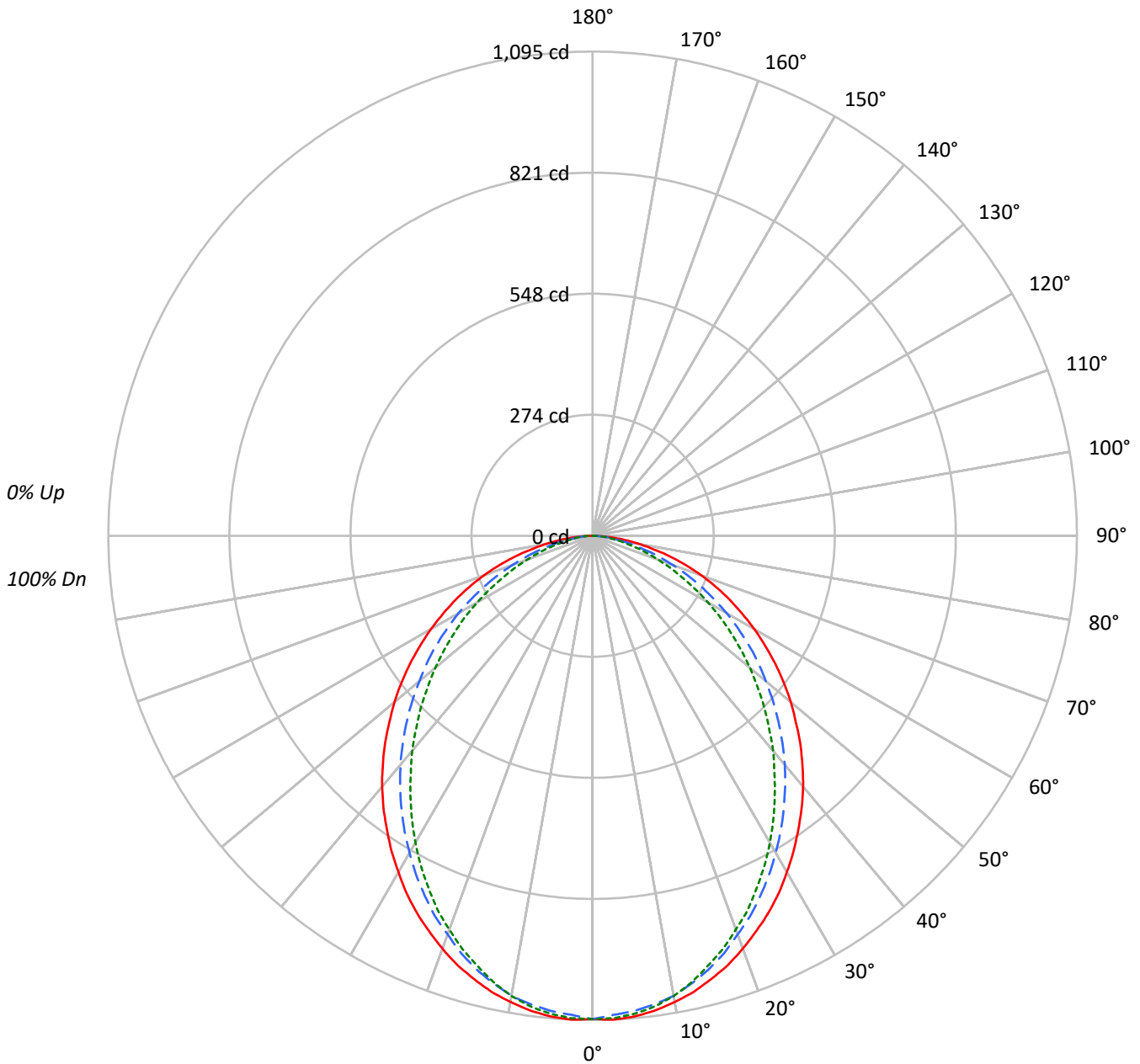
Lumens per Lamp: N/A  
Luminaire Lumens: 2582.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P888410

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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°	10394	10394	10394
5°	10418	10299	10361
10°	10339	10203	10203
15°	10216	9995	9915
20°	10057	9707	9591
25°	9874	9423	9216
30°	9644	9092	8802
35°	9411	8749	8337
40°	9192	8393	7881
45°	8925	7992	7383
50°	8658	7559	6864
55°	8350	7146	6311
60°	8038	6640	5714
65°	7674	6058	5030
70°	7255	5322	4338
75°	6673	4490	3612
80°	5877	3533	3034
85°	4943	2892	2706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	4.0
10°-20°	287.4	11.1
20°-30°	416.8	16.1
30°-40°	474.8	18.4
40°-50°	462.8	17.9
50°-60°	389.5	15.1
60°-70°	272.9	10.6
70°-80°	139.9	5.4
80°-90°	34.9	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°	807.1	31.3
0°-40°	1281.9	49.6
0°-60°	2134.2	82.7
0°-90°	2582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1091	1088	1079	1087	1085	103
15°	1038	1033	1015	1014	1007	293
25°	941	928	898	887	878	433
35°	811	791	754	730	718	508
45°	664	640	594	561	549	512
55°	504	477	431	394	381	450
65°	341	313	269	236	224	338
75°	182	157	122	104	98	192
85°	45	30	26	26	25	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1092.9	1092.9	1092.9	1092.9	1092.9
2.5°	1095.4	1092.9	1084.6	1092.9	1092.0
5°	1091.2	1088.0	1078.8	1086.9	1085.3
7.5°	1083.0	1079.6	1068.9	1075.5	1073.9
10°	1070.6	1068.1	1056.5	1059.1	1056.5
12.5°	1056.5	1053.1	1036.6	1038.2	1034.3
15°	1037.6	1032.6	1015.1	1014.4	1007.0
17.5°	1017.7	1010.4	989.6	985.6	979.8
20°	993.7	985.6	959.1	955.0	947.6
22.5°	967.4	959.1	931.2	922.0	916.1
25°	940.9	928.5	898.0	887.3	878.2
27.5°	911.3	896.3	864.2	850.2	841.2
30°	878.2	862.6	827.9	809.0	801.5
32.5°	845.9	827.1	791.6	770.1	760.4
35°	810.6	790.8	753.6	729.7	718.1
37.5°	776.7	752.7	714.7	686.9	675.1
40°	740.4	715.6	676.0	644.6	634.8
42.5°	702.3	676.8	635.4	605.9	590.1
45°	663.6	639.9	594.2	561.3	548.9
47.5°	623.0	598.5	552.9	519.2	505.1
50°	585.2	557.9	510.9	476.3	463.9
52.5°	543.9	516.0	472.0	434.1	421.7
55°	503.6	477.1	431.0	393.8	380.6
57.5°	462.2	434.1	389.7	353.2	341.7
60°	422.6	393.8	349.1	312.8	300.4
62.5°	380.6	353.2	307.9	274.8	262.4
65°	341.0	312.8	269.2	235.9	223.5
67.5°	301.2	273.3	231.0	199.8	190.0
70°	260.9	232.7	191.4	165.8	156.0
72.5°	221.2	194.0	156.0	132.9	127.2
75°	181.6	156.8	122.2	104.1	98.3
77.5°	141.0	121.3	92.3	78.5	73.5
80°	107.3	87.6	64.5	57.0	55.4
82.5°	74.3	57.0	43.0	40.3	39.7
85°	45.3	30.5	26.5	25.6	24.8
87.5°	19.1	13.2	12.4	12.4	11.5
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)