

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: P888462

Luminaire Tested: **DPT5-6FO44-109V60-F-XX-UDD\_3500K**

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: P888462  
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-F-XX-UDD\_3500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

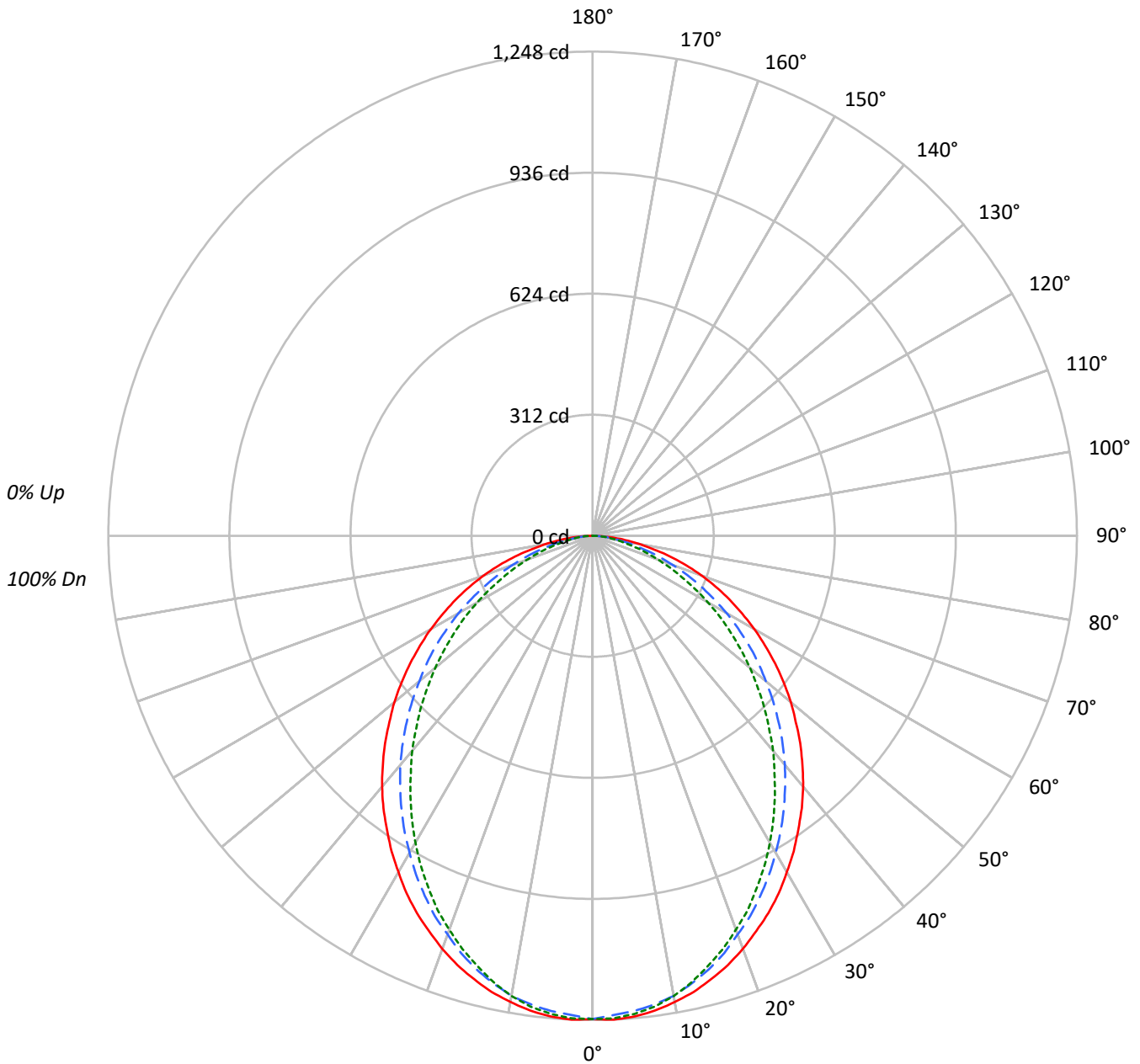
Lumens per Lamp: N/A  
Luminaire Lumens: 2943.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

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				
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			
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°	9630	9630	9630
5°	9652	9543	9600
10°	9579	9453	9453
15°	9466	9261	9186
20°	9318	8994	8886
25°	9148	8731	8539
30°	8936	8423	8155
35°	8719	8107	7725
40°	8518	7776	7302
45°	8270	7405	6840
50°	8022	7005	6360
55°	7737	6622	5848
60°	7448	6152	5294
65°	7110	5612	4661
70°	6722	4930	4019
75°	6183	4161	3345
80°	5445	3272	2814
85°	4586	2679	2510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.2	4.0
10°-20°	327.6	11.1
20°-30°	475.0	16.1
30°-40°	541.2	18.4
40°-50°	527.5	17.9
50°-60°	444.0	15.1
60°-70°	311.1	10.6
70°-80°	159.5	5.4
80°-90°	39.8	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°	919.9	31.3
0°-40°	1461.1	49.6
0°-60°	2432.6	82.7
0°-90°	2943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1244	1240	1230	1239	1237	118
15°	1183	1177	1157	1156	1148	333
25°	1072	1058	1024	1011	1001	494
35°	924	901	859	832	818	579
45°	756	729	677	640	626	583
55°	574	544	491	449	434	513
65°	389	356	307	269	255	385
75°	207	179	139	119	112	219
85°	52	35	30	29	28	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1245.7	1245.7	1245.7	1245.7	1245.7
2.5°	1248.5	1245.7	1236.3	1245.7	1244.7
5°	1243.8	1240.1	1229.7	1238.9	1237.0
7.5°	1234.4	1230.5	1218.3	1225.8	1224.1
10°	1220.2	1217.4	1204.2	1207.1	1204.2
12.5°	1204.2	1200.3	1181.5	1183.4	1178.9
15°	1182.7	1177.0	1157.1	1156.2	1147.8
17.5°	1160.0	1151.6	1127.9	1123.4	1116.7
20°	1132.6	1123.4	1093.2	1088.5	1080.1
22.5°	1102.6	1093.2	1061.4	1050.9	1044.1
25°	1072.4	1058.3	1023.6	1011.3	1001.0
27.5°	1038.7	1021.6	985.0	969.1	958.8
30°	1001.0	983.2	943.6	922.2	913.6
32.5°	964.2	942.7	902.3	877.8	866.7
35°	923.9	901.4	859.0	831.8	818.5
37.5°	885.3	857.9	814.7	782.9	769.5
40°	844.0	815.7	770.5	734.7	723.6
42.5°	800.5	771.4	724.3	690.6	672.6
45°	756.4	729.3	677.3	639.8	625.6
47.5°	710.1	682.2	630.2	591.8	575.7
50°	667.0	635.9	582.4	542.9	528.8
52.5°	619.9	588.1	538.0	494.8	480.6
55°	574.0	543.8	491.3	448.9	433.9
57.5°	526.9	494.8	444.1	402.6	389.5
60°	481.7	448.9	397.9	356.5	342.4
62.5°	433.9	402.6	351.0	313.3	299.1
65°	388.7	356.5	306.8	268.9	254.8
67.5°	343.3	311.5	263.3	227.7	216.6
70°	297.4	265.3	218.1	189.0	177.8
72.5°	252.2	221.1	177.8	151.5	145.0
75°	207.0	178.7	139.3	118.7	112.0
77.5°	160.7	138.2	105.2	89.5	83.8
80°	122.3	99.8	73.5	64.9	63.2
82.5°	84.6	64.9	49.0	45.9	45.2
85°	51.7	34.7	30.2	29.1	28.3
87.5°	21.8	15.0	14.1	14.1	13.1
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)