

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: P888563

Luminaire Tested: **DPT5-6FO55-85V60-F-XX-UDD\_4500K**

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: P888563  
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: DPT5-6FO55-85V60-F-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

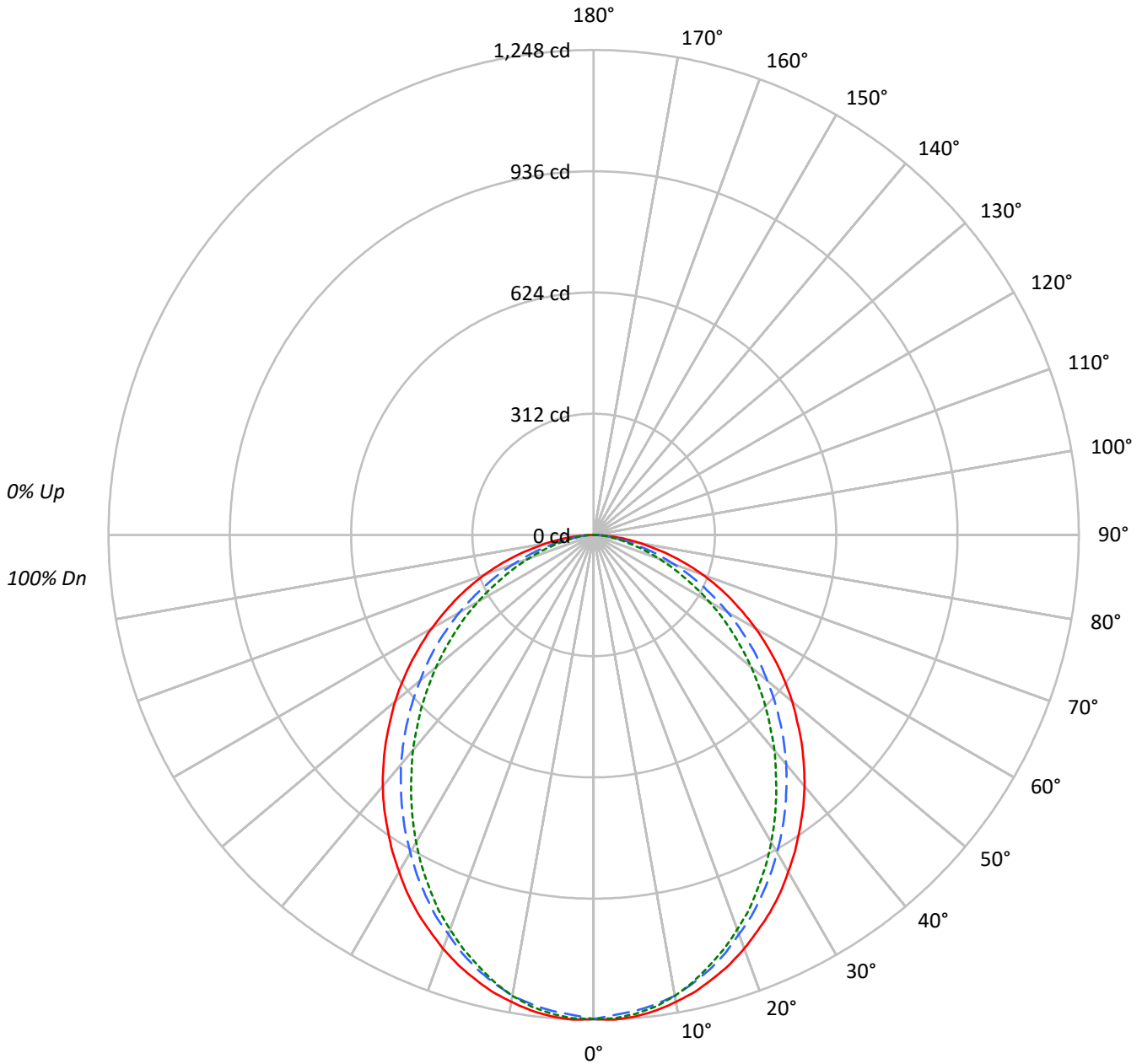
Lumens per Lamp: N/A  
Luminaire Lumens: 2943.0 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.1  
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°	7955	7955	7955
5°	7974	7883	7930
10°	7913	7809	7809
15°	7820	7650	7589
20°	7697	7430	7341
25°	7557	7213	7054
30°	7382	6958	6737
35°	7203	6697	6381
40°	7036	6423	6032
45°	6832	6117	5650
50°	6627	5786	5254
55°	6391	5470	4831
60°	6153	5082	4373
65°	5874	4636	3850
70°	5553	4072	3320
75°	5108	3437	2764
80°	4498	2703	2324
85°	3788	2213	2074



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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)