

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: P888198

Luminaire Tested: **DPT5-6FO44-127V60-A-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: P888198  
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: DPT5-6FO44-127V60-A-XX-UDD\_3500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

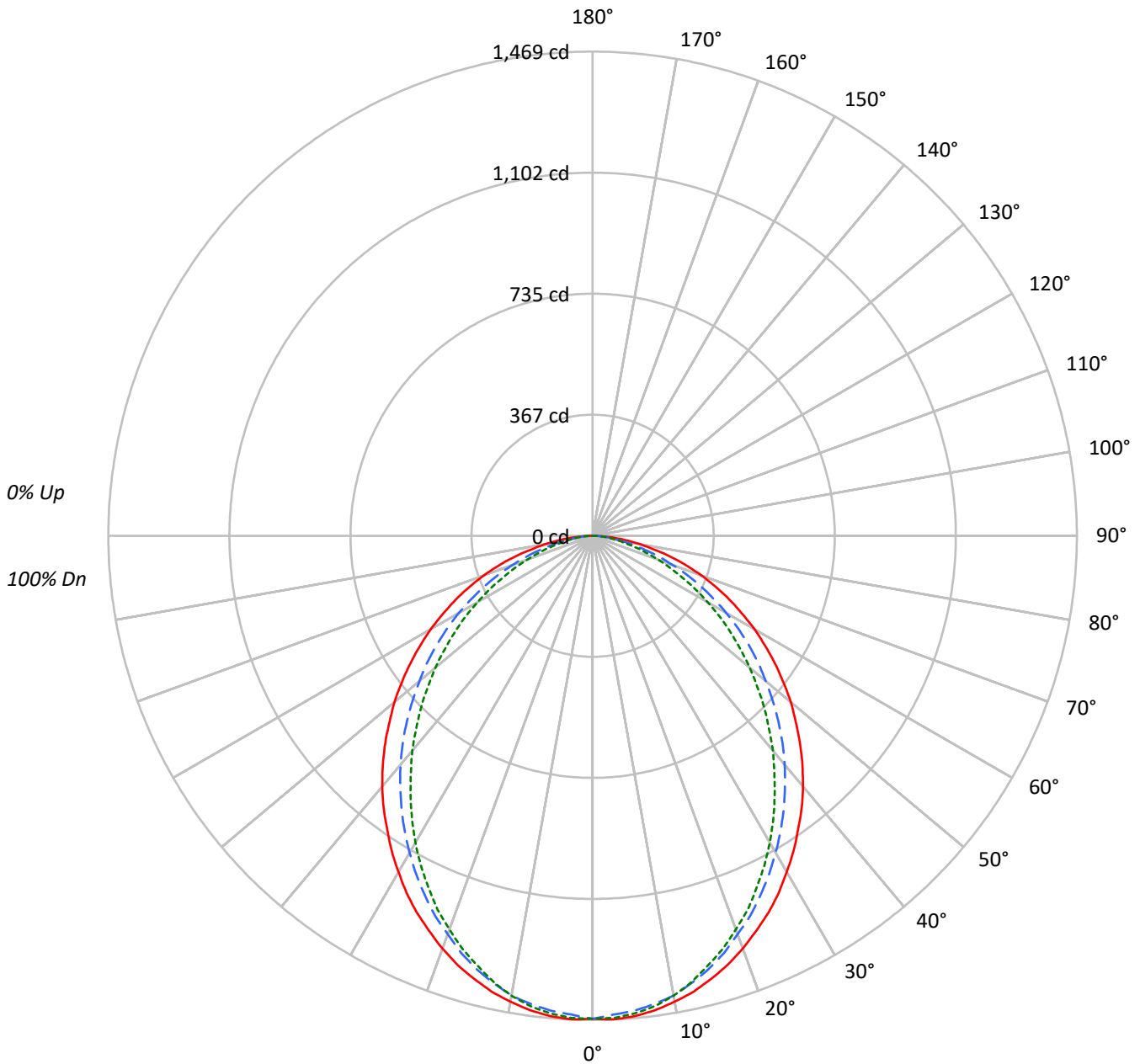
Lumens per Lamp: N/A  
Luminaire Lumens: 3462.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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°	11329	11329	11329
5°	11354	11225	11292
10°	11268	11120	11120
15°	11135	10894	10806
20°	10962	10580	10453
25°	10761	10271	10045
30°	10512	9909	9594
35°	10257	9537	9086
40°	10019	9147	8590
45°	9727	8710	8047
50°	9436	8240	7481
55°	9101	7789	6879
60°	8761	7238	6228
65°	8363	6602	5482
70°	7907	5800	4729
75°	7273	4893	3937
80°	6406	3847	3308
85°	5393	3149	2954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	4.0
10°-20°	385.4	11.1
20°-30°	558.8	16.1
30°-40°	636.7	18.4
40°-50°	620.5	17.9
50°-60°	522.2	15.1
60°-70°	366.0	10.6
70°-80°	187.6	5.4
80°-90°	46.8	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°	1082.1	31.3
0°-40°	1718.8	49.6
0°-60°	2861.6	82.7
0°-90°	3462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1463	1459	1446	1457	1455	139
15°	1391	1384	1361	1360	1350	392
25°	1262	1245	1204	1190	1178	581
35°	1087	1060	1010	978	963	681
45°	890	858	797	753	736	686
55°	675	640	578	528	510	604
65°	457	419	361	316	300	453
75°	244	210	164	140	132	257
85°	61	41	36	34	33	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1465.4	1465.4	1465.4	1465.4	1465.4
2.5°	1468.7	1465.4	1454.3	1465.4	1464.2
5°	1463.1	1458.8	1446.5	1457.4	1455.1
7.5°	1452.1	1447.5	1433.2	1442.0	1439.9
10°	1435.4	1432.1	1416.5	1420.0	1416.5
12.5°	1416.5	1412.0	1389.8	1392.1	1386.8
15°	1391.3	1384.5	1361.1	1360.1	1350.2
17.5°	1364.6	1354.7	1326.8	1321.5	1313.7
20°	1332.4	1321.5	1286.0	1280.4	1270.6
22.5°	1297.1	1286.0	1248.6	1236.3	1228.3
25°	1261.5	1244.9	1204.1	1189.7	1177.6
27.5°	1221.9	1201.8	1158.7	1140.0	1127.9
30°	1177.6	1156.6	1110.0	1084.8	1074.7
32.5°	1134.3	1109.0	1061.4	1032.6	1019.5
35°	1086.8	1060.3	1010.5	978.4	962.8
37.5°	1041.5	1009.2	958.3	921.0	905.1
40°	992.8	959.5	906.4	864.3	851.2
42.5°	941.7	907.4	852.0	812.4	791.2
45°	889.7	857.9	796.7	752.6	736.0
47.5°	835.3	802.5	741.3	696.2	677.3
50°	784.6	748.1	685.1	638.7	622.0
52.5°	729.2	691.8	632.9	582.0	565.4
55°	675.2	639.7	577.9	528.0	510.4
57.5°	619.8	582.0	522.5	473.6	458.2
60°	566.6	528.0	468.1	419.4	402.8
62.5°	510.4	473.6	412.8	368.5	351.9
65°	457.2	419.4	360.9	316.4	299.7
67.5°	403.8	366.5	309.8	267.9	254.8
70°	349.8	312.0	256.6	222.3	209.2
72.5°	296.7	260.1	209.2	178.2	170.6
75°	243.5	210.2	163.8	139.6	131.8
77.5°	189.1	162.6	123.8	105.3	98.5
80°	143.9	117.4	86.4	76.4	74.3
82.5°	99.6	76.4	57.7	54.0	53.2
85°	60.8	40.9	35.5	34.3	33.3
87.5°	25.7	17.7	16.6	16.6	15.4
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)