

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: P888202

Luminaire Tested: **DPT5-6FO44-127V60-A-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: P888202  
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\_6500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

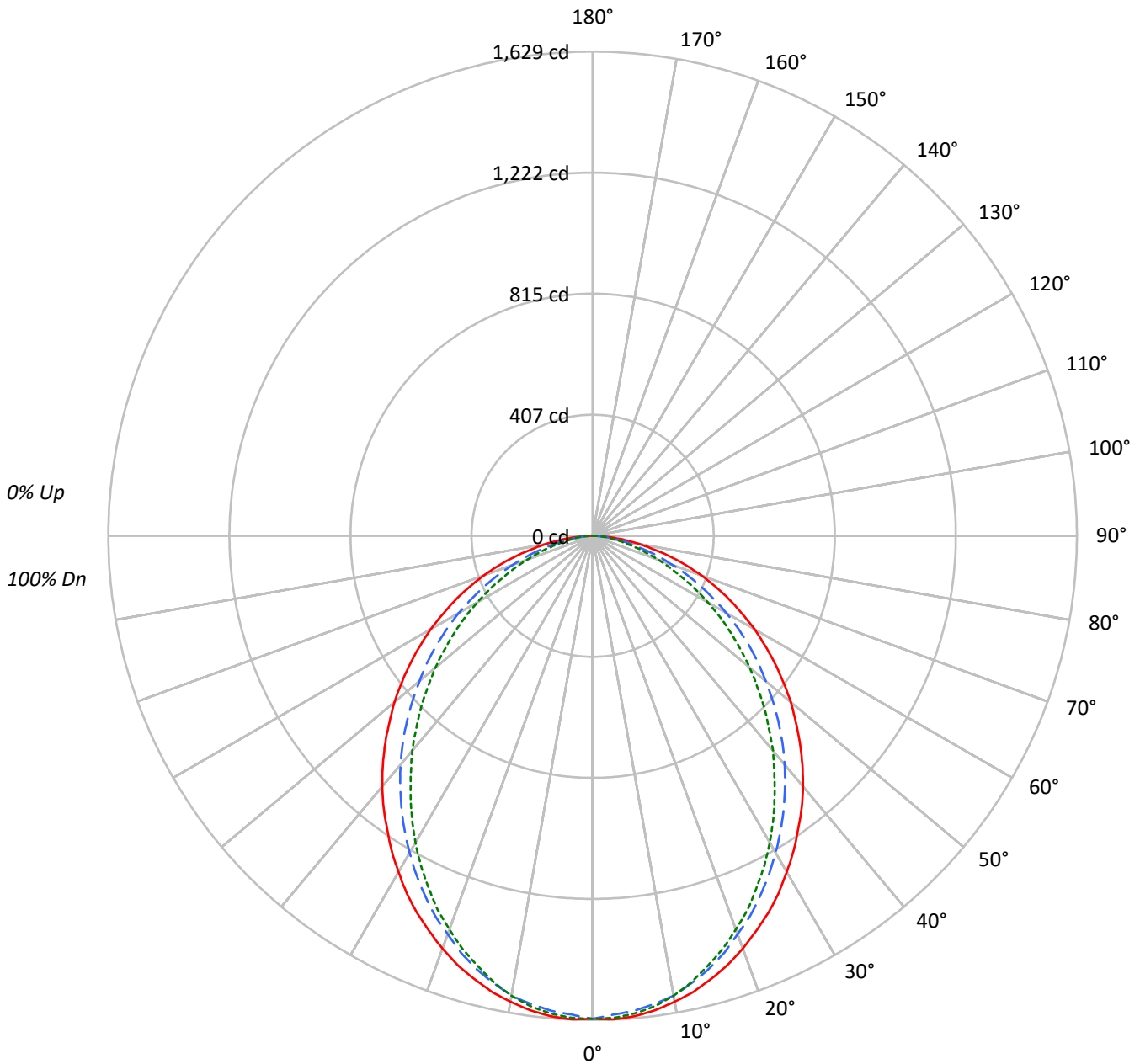
Lumens per Lamp: N/A  
Luminaire Lumens: 3839.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	12563	12563	12563
5°	12591	12448	12522
10°	12495	12331	12331
15°	12348	12080	11984
20°	12155	11732	11591
25°	11933	11389	11138
30°	11657	10988	10639
35°	11374	10575	10076
40°	11110	10143	9525
45°	10786	9659	8922
50°	10465	9137	8296
55°	10091	8637	7627
60°	9715	8025	6907
65°	9274	7321	6080
70°	8768	6433	5244
75°	8065	5427	4367
80°	7105	4265	3668
85°	5978	3495	3273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.9	4.0
10°-20°	427.4	11.1
20°-30°	619.7	16.1
30°-40°	706.0	18.4
40°-50°	688.1	17.9
50°-60°	579.1	15.1
60°-70°	405.8	10.6
70°-80°	208.1	5.4
80°-90°	51.9	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°	1200.0	31.3
0°-40°	1906.0	49.6
0°-60°	3173.2	82.7
0°-90°	3839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3839.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1622	1618	1604	1616	1614	154
15°	1543	1535	1509	1508	1497	435
25°	1399	1380	1335	1319	1306	644
35°	1205	1176	1120	1085	1068	755
45°	987	951	884	835	816	761
55°	749	709	641	586	566	669
65°	507	465	400	351	332	502
75°	270	233	182	155	146	285
85°	67	45	39	38	37	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1625.0	1625.0	1625.0	1625.0	1625.0
2.5°	1628.6	1625.0	1612.7	1625.0	1623.6
5°	1622.5	1617.7	1604.0	1616.1	1613.6
7.5°	1610.2	1605.2	1589.2	1599.0	1596.7
10°	1591.7	1588.1	1570.8	1574.7	1570.8
12.5°	1570.8	1565.8	1541.2	1543.7	1537.8
15°	1542.8	1535.3	1509.3	1508.2	1497.3
17.5°	1513.2	1502.3	1471.3	1465.4	1456.7
20°	1477.5	1465.4	1426.0	1419.9	1408.9
22.5°	1438.3	1426.0	1384.6	1370.9	1362.0
25°	1398.9	1380.5	1335.2	1319.2	1305.8
27.5°	1355.0	1332.7	1284.9	1264.1	1250.7
30°	1305.8	1282.6	1230.9	1202.9	1191.8
32.5°	1257.8	1229.8	1177.0	1145.1	1130.5
35°	1205.2	1175.8	1120.5	1085.0	1067.7
37.5°	1154.9	1119.1	1062.7	1021.2	1003.7
40°	1100.9	1064.0	1005.1	958.4	943.8
42.5°	1044.2	1006.2	944.8	900.8	877.4
45°	986.6	951.4	883.5	834.6	816.1
47.5°	926.3	889.9	822.0	772.0	751.0
50°	870.1	829.6	759.7	708.2	689.8
52.5°	808.6	767.2	701.8	645.4	627.0
55°	748.7	709.4	640.8	585.5	565.9
57.5°	687.3	645.4	579.4	525.2	508.1
60°	628.3	585.5	519.0	465.1	446.7
62.5°	565.9	525.2	457.8	408.6	390.2
65°	507.0	465.1	400.2	350.8	332.4
67.5°	447.8	406.4	343.5	297.1	282.5
70°	387.9	346.0	284.6	246.5	232.0
72.5°	329.0	288.4	232.0	197.6	189.2
75°	270.0	233.1	181.7	154.8	146.2
77.5°	209.7	180.3	137.3	116.8	109.3
80°	159.6	130.2	95.8	84.7	82.4
82.5°	110.4	84.7	64.0	59.9	59.0
85°	67.4	45.3	39.4	38.0	36.9
87.5°	28.5	19.6	18.4	18.4	17.1
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)