

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: P888475

Luminaire Tested: **DPT5-6FO44-127V60-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: P888475  
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-F-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

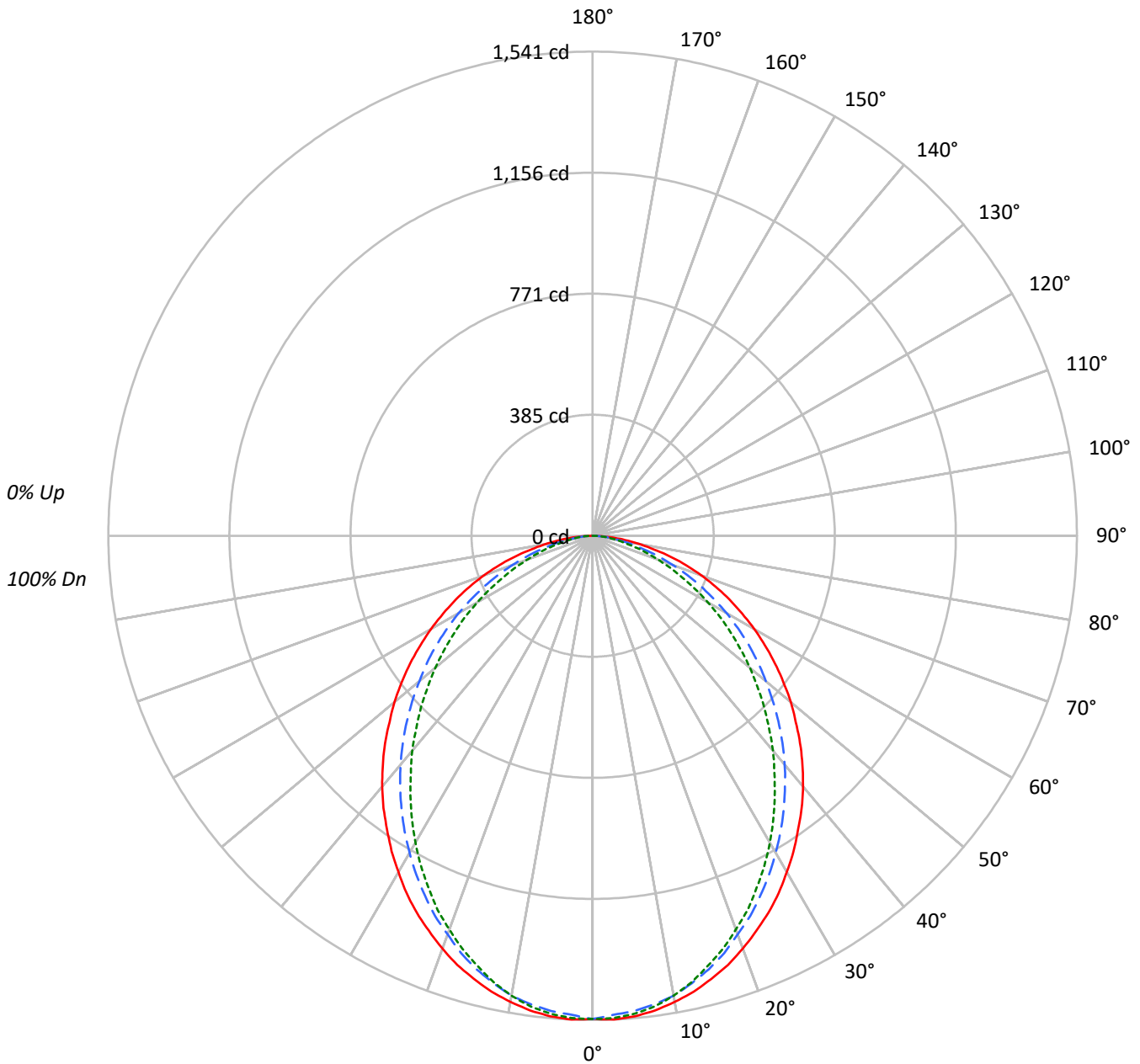
Lumens per Lamp: N/A  
Luminaire Lumens: 3633.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	11888	11888	11888
5°	11915	11780	11850
10°	11825	11669	11669
15°	11685	11431	11340
20°	11503	11102	10969
25°	11292	10778	10541
30°	11031	10399	10068
35°	10764	10008	9536
40°	10514	9598	9014
45°	10208	9141	8444
50°	9903	8646	7851
55°	9551	8173	7219
60°	9193	7595	6536
65°	8777	6927	5753
70°	8298	6087	4961
75°	7632	5135	4131
80°	6723	4038	3473
85°	5659	3309	3096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.7	4.0
10°-20°	404.4	11.1
20°-30°	586.4	16.1
30°-40°	668.1	18.4
40°-50°	651.2	17.9
50°-60°	548.1	15.1
60°-70°	384.0	10.6
70°-80°	196.9	5.4
80°-90°	49.1	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°	1135.6	31.3
0°-40°	1803.7	49.6
0°-60°	3003.0	82.7
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1535	1531	1518	1529	1527	146
15°	1460	1453	1428	1427	1417	412
25°	1324	1306	1264	1248	1236	609
35°	1140	1113	1060	1027	1010	714
45°	934	900	836	790	772	720
55°	709	671	606	554	536	633
65°	480	440	379	332	314	475
75°	256	221	172	146	138	270
85°	64	43	37	36	35	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1537.8	1537.8	1537.8	1537.8	1537.8
2.5°	1541.2	1537.8	1526.1	1537.8	1536.5
5°	1535.4	1530.9	1518.0	1529.4	1527.0
7.5°	1523.8	1519.0	1504.0	1513.2	1511.1
10°	1506.3	1502.9	1486.5	1490.2	1486.5
12.5°	1486.5	1481.8	1458.5	1460.9	1455.3
15°	1460.0	1452.9	1428.3	1427.3	1416.9
17.5°	1432.0	1421.7	1392.4	1386.8	1378.6
20°	1398.2	1386.8	1349.5	1343.7	1333.3
22.5°	1361.1	1349.5	1310.3	1297.3	1288.9
25°	1323.8	1306.4	1263.5	1248.4	1235.7
27.5°	1282.3	1261.2	1215.9	1196.3	1183.6
30°	1235.7	1213.8	1164.9	1138.4	1127.8
32.5°	1190.3	1163.8	1113.8	1083.6	1069.9
35°	1140.5	1112.7	1060.4	1026.8	1010.4
37.5°	1092.9	1059.1	1005.7	966.4	949.9
40°	1041.8	1006.9	951.1	907.0	893.2
42.5°	988.2	952.2	894.1	852.5	830.3
45°	933.7	900.3	836.1	789.8	772.3
47.5°	876.6	842.1	777.9	730.5	710.7
50°	823.4	785.0	718.9	670.2	652.8
52.5°	765.2	726.0	664.2	610.8	593.3
55°	708.6	671.3	606.4	554.1	535.6
57.5°	650.4	610.8	548.3	497.0	480.9
60°	594.6	554.1	491.2	440.1	422.7
62.5°	535.6	497.0	433.2	386.7	369.3
65°	479.8	440.1	378.7	332.0	314.5
67.5°	423.8	384.6	325.1	281.1	267.4
70°	367.1	327.5	269.3	233.3	219.5
72.5°	311.3	273.0	219.5	187.0	179.0
75°	255.5	220.6	171.9	146.5	138.3
77.5°	198.4	170.6	129.9	110.5	103.4
80°	151.0	123.2	90.7	80.1	78.0
82.5°	104.5	80.1	60.5	56.7	55.8
85°	63.8	42.9	37.3	36.0	34.9
87.5°	26.9	18.5	17.5	17.5	16.2
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)