

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: P888473

Luminaire Tested: **DPT5-6FO44-127V60-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: P888473  
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\_3500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

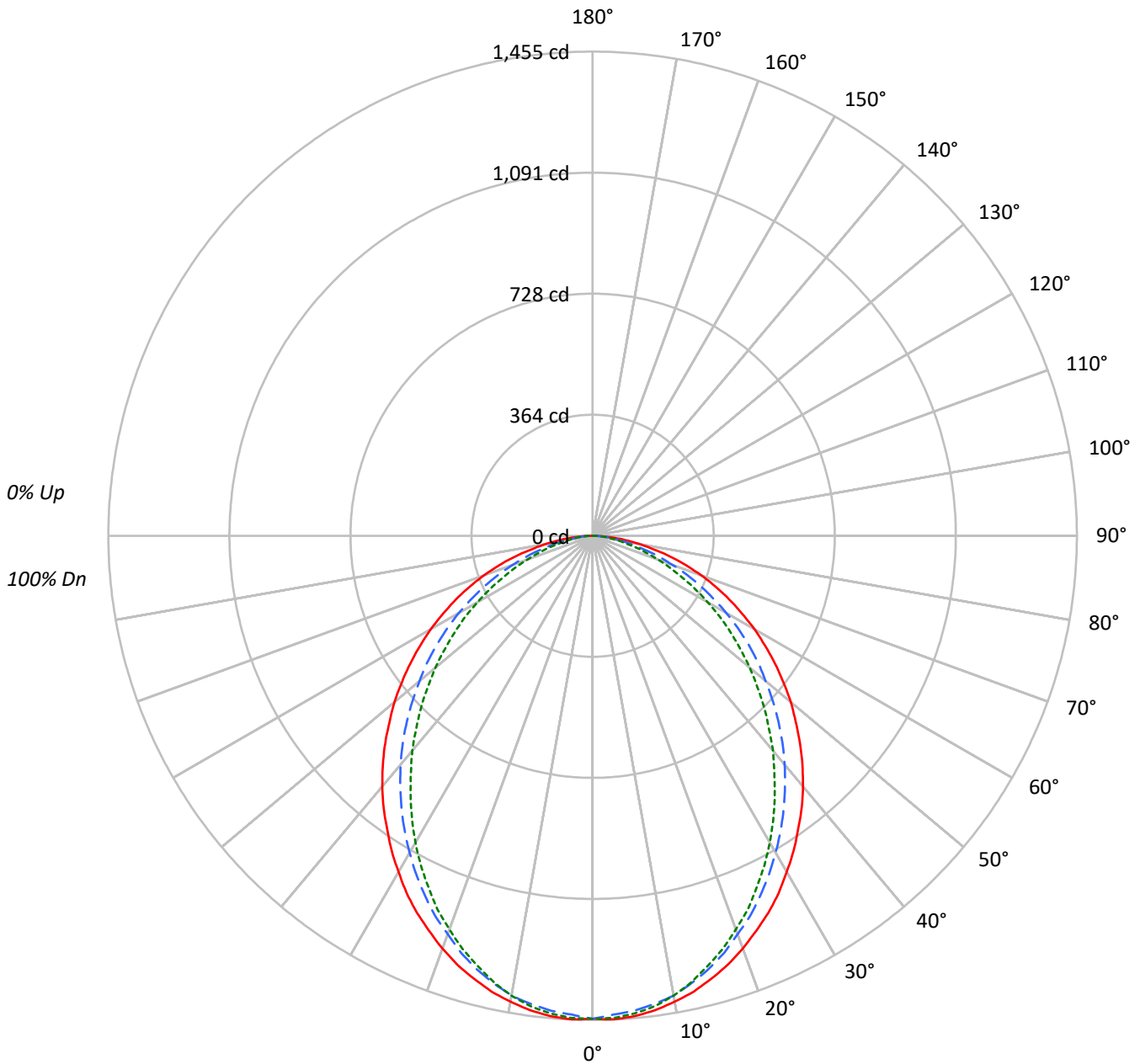
Lumens per Lamp: N/A  
Luminaire Lumens: 3429.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P888473

CATALOG NUMBER: DPT5-6FO44-127V60-F-XX-UDD\_3500K

### 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°	11220	11220	11220
5°	11246	11118	11185
10°	11160	11014	11014
15°	11029	10790	10704
20°	10857	10479	10354
25°	10658	10173	9949
30°	10411	9814	9503
35°	10160	9445	9001
40°	9923	9059	8507
45°	9635	8628	7970
50°	9347	8160	7410
55°	9014	7715	6813
60°	8677	7168	6168
65°	8283	6540	5431
70°	7832	5746	4683
75°	7205	4848	3898
80°	6344	3811	3277
85°	5340	3122	2918



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.6	4.0
10°-20°	381.7	11.1
20°-30°	553.5	16.1
30°-40°	630.6	18.4
40°-50°	614.6	17.9
50°-60°	517.3	15.1
60°-70°	362.5	10.6
70°-80°	185.8	5.4
80°-90°	46.4	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°	1071.8	31.3
0°-40°	1702.4	49.6
0°-60°	2834.3	82.7
0°-90°	3429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3429.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1449	1445	1433	1444	1441	137
15°	1378	1371	1348	1347	1337	389
25°	1250	1233	1193	1178	1166	575
35°	1076	1050	1001	969	954	674
45°	881	850	789	745	729	680
55°	669	634	572	523	506	598
65°	453	415	358	313	297	448
75°	241	208	162	138	130	255
85°	60	40	35	34	33	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1454.7	1451.4	1440.4	1451.4	1450.2
5°	1449.2	1444.9	1432.7	1443.5	1441.3
7.5°	1438.2	1433.7	1419.5	1428.2	1426.2
10°	1421.7	1418.5	1403.0	1406.5	1403.0
12.5°	1403.0	1398.6	1376.6	1378.8	1373.5
15°	1378.0	1371.3	1348.1	1347.1	1337.4
17.5°	1351.6	1341.8	1314.2	1308.9	1301.2
20°	1319.7	1308.9	1273.7	1268.2	1258.5
22.5°	1284.7	1273.7	1236.7	1224.5	1216.6
25°	1249.5	1233.0	1192.6	1178.3	1166.3
27.5°	1210.3	1190.3	1147.6	1129.1	1117.1
30°	1166.3	1145.6	1099.4	1074.4	1064.5
32.5°	1123.4	1098.4	1051.3	1022.8	1009.8
35°	1076.5	1050.2	1000.8	969.1	953.7
37.5°	1031.5	999.6	949.2	912.2	896.5
40°	983.3	950.4	897.7	856.1	843.0
42.5°	932.7	898.8	843.9	804.6	783.7
45°	881.3	849.7	789.2	745.4	729.0
47.5°	827.4	794.8	734.3	689.5	670.8
50°	777.2	741.0	678.5	632.6	616.1
52.5°	722.3	685.2	626.9	576.5	560.0
55°	668.8	633.6	572.4	523.0	505.5
57.5°	613.9	576.5	517.5	469.1	453.9
60°	561.2	523.0	463.6	415.4	398.9
62.5°	505.5	469.1	408.9	365.0	348.5
65°	452.8	415.4	357.5	313.3	296.9
67.5°	400.0	363.0	306.8	265.4	252.3
70°	346.5	309.1	254.2	220.2	207.2
72.5°	293.8	257.6	207.2	176.5	169.0
75°	241.2	208.2	162.3	138.3	130.5
77.5°	187.3	161.0	122.6	104.3	97.6
80°	142.5	116.3	85.6	75.6	73.6
82.5°	98.6	75.6	57.1	53.5	52.7
85°	60.2	40.5	35.2	34.0	32.9
87.5°	25.4	17.5	16.5	16.5	15.3
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)