

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: P888468

Luminaire Tested: **DPT5-6FO44-127S30-F-XX-UDD**

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: P888468  
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: DPT5-6FO44-127S30-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

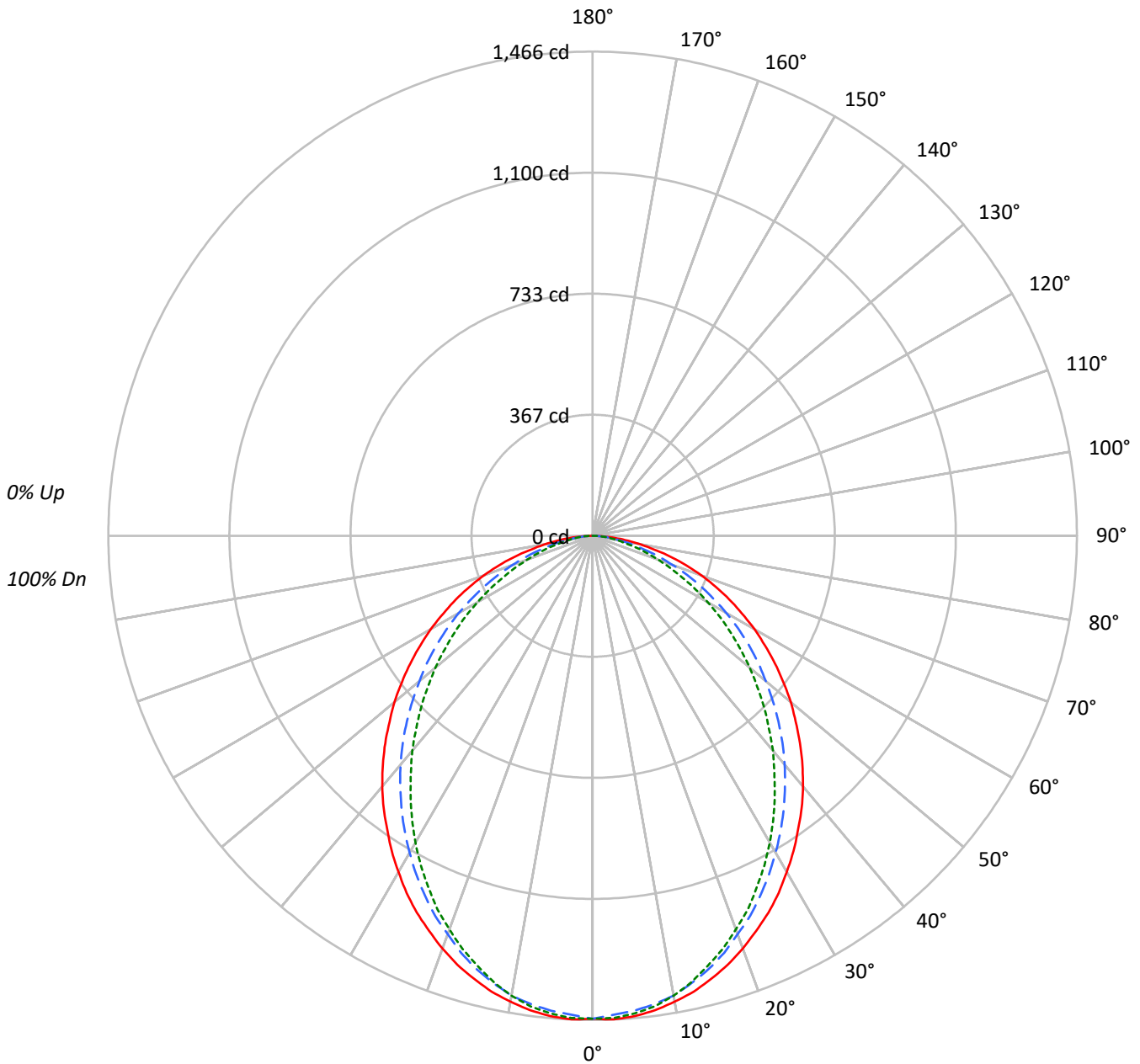
Lumens per Lamp: N/A  
Luminaire Lumens: 3455.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

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: P888468

CATALOG NUMBER: DPT5-6FO44-127S30-F-XX-UDD

### Luminous Intensity Polar Plot





TEST NUMBER: P888468

CATALOG NUMBER: DPT5-6FO44-127S30-F-XX-UDD

**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°	11306	11306	11306
5°	11332	11203	11270
10°	11245	11098	11098
15°	11113	10872	10785
20°	10939	10558	10432
25°	10739	10250	10024
30°	10491	9889	9574
35°	10236	9517	9069
40°	9999	9128	8572
45°	9707	8693	8030
50°	9418	8223	7466
55°	9082	7773	6864
60°	8744	7222	6216
65°	8347	6589	5471
70°	7891	5789	4720
75°	7258	4884	3928
80°	6393	3842	3303
85°	5375	3140	2945



TEST NUMBER: P888468

CATALOG NUMBER: DPT5-6FO44-127S30-F-XX-UDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	4.0
10°-20°	384.6	11.1
20°-30°	557.7	16.1
30°-40°	635.4	18.4
40°-50°	619.3	17.9
50°-60°	521.2	15.1
60°-70°	365.2	10.6
70°-80°	187.3	5.4
80°-90°	46.7	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°	1079.9	31.3
0°-40°	1715.3	49.6
0°-60°	2855.8	82.7
0°-90°	3455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3455.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1460	1456	1444	1454	1452	138
15°	1388	1382	1358	1357	1348	391
25°	1259	1242	1202	1187	1175	579
35°	1085	1058	1008	976	961	679
45°	888	856	795	751	734	685
55°	674	638	577	527	509	602
65°	456	419	360	316	299	452
75°	243	210	164	139	132	257
85°	61	41	35	34	33	70
90°	0	0	0	0	0	



TEST NUMBER: P888468

CATALOG NUMBER: DPT5-6FO44-127S30-F-XX-UDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1462.4	1462.4	1462.4	1462.4	1462.4
2.5°	1465.7	1462.4	1451.4	1462.4	1461.2
5°	1460.2	1455.9	1443.6	1454.4	1452.2
7.5°	1449.1	1444.6	1430.3	1439.1	1437.0
10°	1432.5	1429.2	1413.7	1417.2	1413.7
12.5°	1413.7	1409.2	1387.0	1389.3	1384.0
15°	1388.5	1381.7	1358.4	1357.3	1347.5
17.5°	1361.8	1352.0	1324.1	1318.8	1311.0
20°	1329.7	1318.8	1283.4	1277.8	1268.0
22.5°	1294.4	1283.4	1246.1	1233.8	1225.8
25°	1259.0	1242.4	1201.6	1187.3	1175.2
27.5°	1219.4	1199.4	1156.3	1137.7	1125.6
30°	1175.2	1154.3	1107.8	1082.6	1072.5
32.5°	1132.0	1106.8	1059.2	1030.5	1017.4
35°	1084.6	1058.2	1008.4	976.5	960.9
37.5°	1039.4	1007.2	956.4	919.1	903.3
40°	990.8	957.6	904.5	862.5	849.4
42.5°	939.8	905.6	850.3	810.7	789.6
45°	887.9	856.2	795.1	751.1	734.5
47.5°	833.7	800.9	739.8	694.7	675.9
50°	783.1	746.6	683.7	637.4	620.8
52.5°	727.7	690.4	631.6	580.8	564.2
55°	673.8	638.4	576.7	527.0	509.3
57.5°	618.5	580.8	521.4	472.7	457.3
60°	565.5	527.0	467.1	418.6	402.0
62.5°	509.3	472.7	412.0	367.8	351.2
65°	456.3	418.6	360.2	315.7	299.1
67.5°	403.0	365.7	309.2	267.4	254.3
70°	349.1	311.4	256.1	221.9	208.8
72.5°	296.1	259.6	208.8	177.8	170.3
75°	243.0	209.8	163.5	139.3	131.5
77.5°	188.7	162.3	123.5	105.1	98.3
80°	143.6	117.2	86.3	76.2	74.2
82.5°	99.4	76.2	57.6	53.9	53.1
85°	60.6	40.8	35.4	34.2	33.2
87.5°	25.6	17.6	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)