

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: P888192

Luminaire Tested: **DPT5-6FO44-127S27-A-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: P888192  
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: DPT5-6FO44-127S27-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

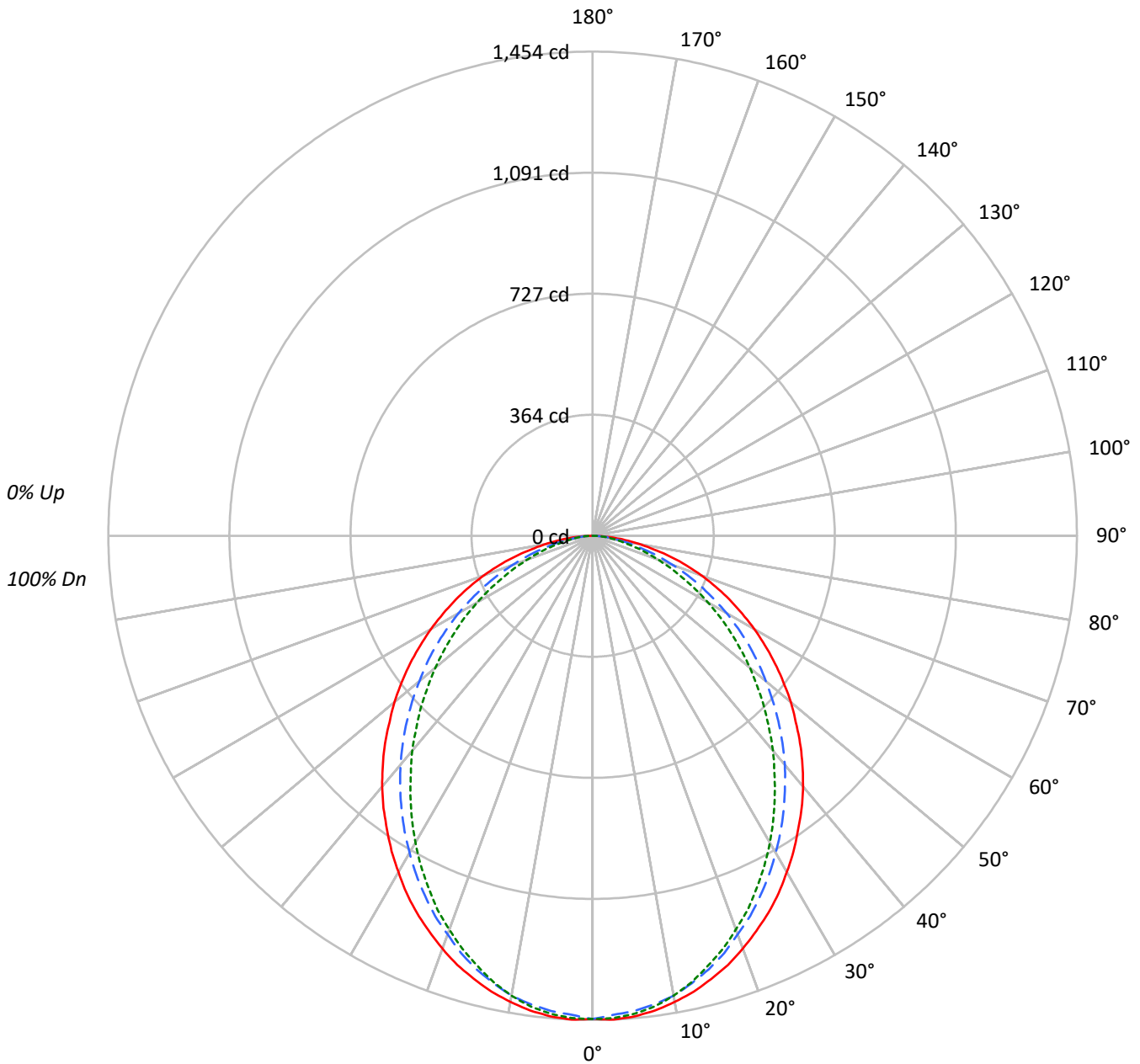
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3428.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 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°	11217	11217	11217
5°	11243	11115	11181
10°	11157	11010	11010
15°	11026	10786	10701
20°	10854	10475	10350
25°	10655	10169	9946
30°	10409	9811	9500
35°	10157	9442	8998
40°	9921	9057	8505
45°	9632	8625	7968
50°	9344	8158	7407
55°	9012	7712	6812
60°	8674	7166	6166
65°	8281	6538	5429
70°	7830	5744	4681
75°	7202	4845	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°	381.6	11.1
20°-30°	553.3	16.1
30°-40°	630.4	18.4
40°-50°	614.4	17.9
50°-60°	517.1	15.1
60°-70°	362.4	10.6
70°-80°	185.8	5.4
80°-90°	46.3	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°	1071.5	31.3
0°-40°	1701.9	49.6
0°-60°	2833.5	82.7
0°-90°	3428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3428.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1449	1444	1432	1443	1441	137
15°	1378	1371	1348	1347	1337	388
25°	1249	1233	1192	1178	1166	575
35°	1076	1050	1000	969	953	674
45°	881	850	789	745	729	679
55°	669	633	572	523	505	598
65°	453	415	357	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°	1451.0	1451.0	1451.0	1451.0	1451.0
2.5°	1454.3	1451.0	1440.0	1451.0	1449.8
5°	1448.8	1444.5	1432.3	1443.1	1440.8
7.5°	1437.8	1433.3	1419.1	1427.8	1425.8
10°	1421.3	1418.1	1402.6	1406.1	1402.6
12.5°	1402.6	1398.2	1376.2	1378.4	1373.1
15°	1377.6	1370.9	1347.7	1346.7	1337.0
17.5°	1351.2	1341.4	1313.8	1308.5	1300.8
20°	1319.3	1308.5	1273.3	1267.8	1258.1
22.5°	1284.3	1273.3	1236.3	1224.1	1216.2
25°	1249.1	1232.7	1192.2	1178.0	1166.0
27.5°	1209.9	1190.0	1147.3	1128.8	1116.8
30°	1166.0	1145.3	1099.1	1074.1	1064.2
32.5°	1123.1	1098.1	1051.0	1022.5	1009.5
35°	1076.2	1049.9	1000.5	968.8	953.4
37.5°	1031.2	999.3	948.9	911.9	896.3
40°	983.1	950.1	897.5	855.8	842.8
42.5°	932.4	898.5	843.6	804.4	783.4
45°	881.0	849.5	788.9	745.2	728.8
47.5°	827.1	794.6	734.0	689.3	670.6
50°	776.9	740.7	678.3	632.4	615.9
52.5°	722.0	685.0	626.7	576.3	559.8
55°	668.6	633.4	572.2	522.8	505.4
57.5°	613.7	576.3	517.3	469.0	453.7
60°	561.0	522.8	463.5	415.3	398.8
62.5°	505.4	469.0	408.8	364.9	348.4
65°	452.7	415.3	357.4	313.3	296.8
67.5°	399.8	362.9	306.7	265.3	252.3
70°	346.4	309.0	254.1	220.2	207.1
72.5°	293.7	257.6	207.1	176.4	168.9
75°	241.1	208.2	162.2	138.2	130.5
77.5°	187.2	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	52.6
85°	60.2	40.5	35.2	33.9	32.9
87.5°	25.4	17.5	16.5	16.5	15.2
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)