

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: P888249

Luminaire Tested: **DPT5-6FO55-127S35-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: P888249  
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: DPT5-6FO55-127S35-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

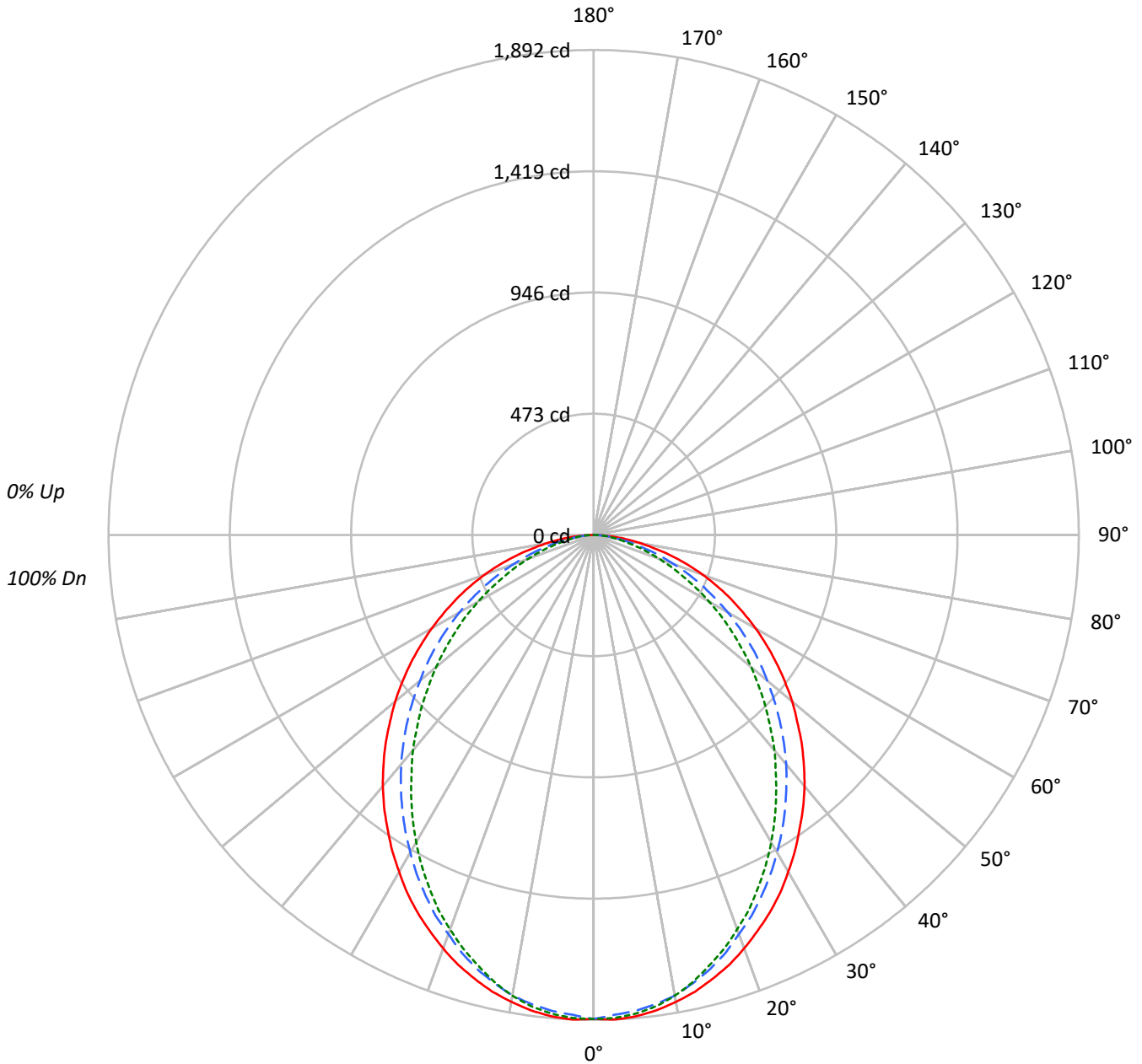
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4461.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 45  
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°	12059	12059	12059
5°	12086	11949	12020
10°	11994	11837	11837
15°	11853	11596	11503
20°	11668	11261	11127
25°	11455	10933	10692
30°	11190	10547	10212
35°	10918	10151	9673
40°	10665	9736	9144
45°	10355	9273	8566
50°	10046	8771	7963
55°	9688	8292	7322
60°	9325	7703	6629
65°	8902	7028	5836
70°	8417	6175	5034
75°	7740	5209	4190
80°	6819	4097	3523
85°	5737	3356	3143



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	4.0
10°-20°	496.6	11.1
20°-30°	720.1	16.1
30°-40°	820.4	18.4
40°-50°	799.6	17.9
50°-60°	673.0	15.1
60°-70°	471.6	10.6
70°-80°	241.8	5.4
80°-90°	60.3	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°	1394.4	31.3
0°-40°	2214.8	49.6
0°-60°	3687.4	82.7
0°-90°	4461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1885	1880	1864	1878	1875	179
15°	1793	1784	1754	1752	1740	505
25°	1626	1604	1552	1533	1517	748
35°	1400	1366	1302	1261	1241	877
45°	1146	1106	1027	970	948	884
55°	870	824	745	680	658	778
65°	589	540	465	408	386	583
75°	314	271	211	180	170	332
85°	78	53	46	44	43	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1888.3	1888.3	1888.3	1888.3	1888.3
2.5°	1892.5	1888.3	1874.0	1888.3	1886.7
5°	1885.3	1879.8	1863.9	1877.9	1875.0
7.5°	1871.1	1865.2	1846.7	1858.1	1855.4
10°	1849.6	1845.4	1825.3	1829.8	1825.3
12.5°	1825.3	1819.5	1790.9	1793.8	1786.9
15°	1792.8	1784.0	1753.9	1752.5	1739.8
17.5°	1758.4	1745.7	1709.7	1702.8	1692.8
20°	1716.8	1702.8	1657.0	1649.9	1637.2
22.5°	1671.3	1657.0	1608.9	1593.0	1582.7
25°	1625.6	1604.1	1551.5	1533.0	1517.4
27.5°	1574.5	1548.6	1493.0	1469.0	1453.4
30°	1517.4	1490.4	1430.3	1397.8	1384.8
32.5°	1461.6	1429.0	1367.6	1330.6	1313.7
35°	1400.4	1366.3	1302.0	1260.8	1240.7
37.5°	1342.0	1300.5	1234.8	1186.7	1166.3
40°	1279.3	1236.4	1167.9	1113.7	1096.8
42.5°	1213.4	1169.2	1097.8	1046.8	1019.5
45°	1146.5	1105.5	1026.7	969.8	948.4
47.5°	1076.4	1034.1	955.2	897.0	872.7
50°	1011.1	964.0	882.8	823.0	801.5
52.5°	939.6	891.5	815.6	750.0	728.5
55°	870.1	824.3	744.7	680.4	657.6
57.5°	798.6	750.0	673.2	610.3	590.4
60°	730.1	680.4	603.1	540.4	519.0
62.5°	657.6	610.3	532.0	474.8	453.4
65°	589.1	540.4	465.1	407.6	386.2
67.5°	520.3	472.2	399.2	345.2	328.3
70°	450.8	402.1	330.7	286.5	269.6
72.5°	382.3	335.2	269.6	229.6	219.8
75°	313.7	270.9	211.1	179.9	169.8
77.5°	243.6	209.5	159.5	135.7	127.0
80°	185.4	151.3	111.4	98.4	95.8
82.5°	128.3	98.4	74.3	69.6	68.5
85°	78.3	52.6	45.8	44.2	42.9
87.5°	33.1	22.8	21.4	21.4	19.8
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)