

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: P888254

Luminaire Tested: **DPT5-6FO55-127V60-A-XX-UDD\_4000K**

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: P888254  
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: DPT5-6FO55-127V60-A-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

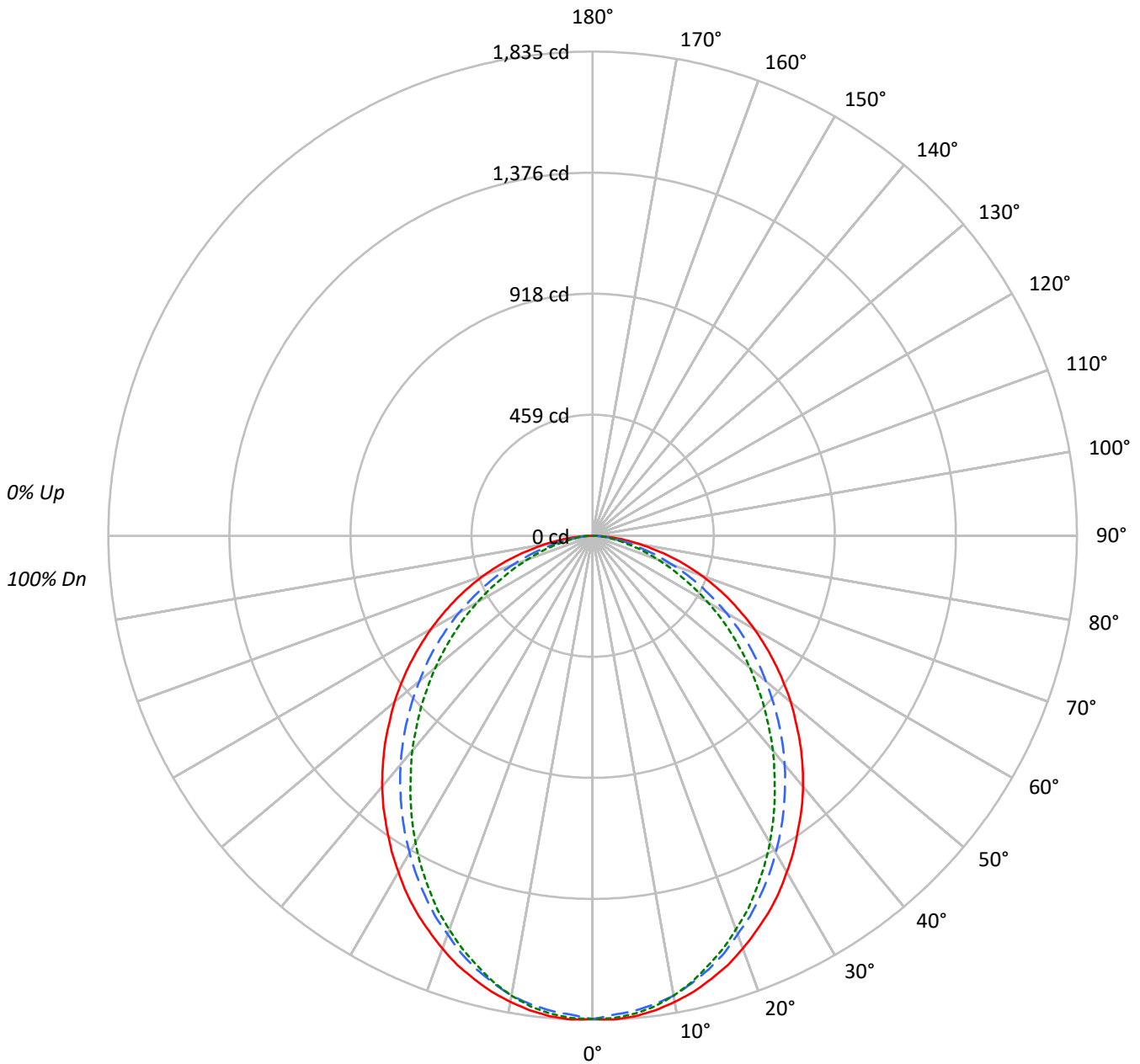
Lumens per Lamp: N/A  
Luminaire Lumens: 4326.0 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61				61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53				53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36				36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33				33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29				29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27				27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11694	11694	11694
5°	11721	11587	11657
10°	11632	11479	11479
15°	11494	11245	11155
20°	11315	10921	10790
25°	11108	10601	10369
30°	10851	10229	9903
35°	10588	9844	9380
40°	10343	9442	8867
45°	10041	8992	8306
50°	9742	8505	7723
55°	9394	8040	7100
60°	9043	7471	6428
65°	8633	6815	5659
70°	8162	5988	4881
75°	7506	5051	4064
80°	6613	3972	3417
85°	5562	3253	3048



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.3	4.0
10°-20°	481.6	11.1
20°-30°	698.3	16.1
30°-40°	795.6	18.4
40°-50°	775.4	17.9
50°-60°	652.6	15.1
60°-70°	457.3	10.6
70°-80°	234.5	5.4
80°-90°	58.5	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°	1352.2	31.3
0°-40°	2147.8	49.6
0°-60°	3575.8	82.7
0°-90°	4326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4326.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1828	1823	1808	1821	1818	173
15°	1738	1730	1701	1700	1687	490
25°	1576	1556	1504	1487	1472	726
35°	1358	1325	1263	1223	1203	850
45°	1112	1072	996	940	920	857
55°	844	799	722	660	638	754
65°	571	524	451	395	374	566
75°	304	263	205	174	165	322
85°	76	51	44	43	42	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1835.2	1831.1	1817.3	1831.1	1829.6
5°	1828.3	1822.9	1807.5	1821.1	1818.3
7.5°	1814.4	1808.8	1790.8	1801.9	1799.3
10°	1793.7	1789.6	1770.1	1774.4	1770.1
12.5°	1770.1	1764.4	1736.7	1739.5	1732.9
15°	1738.5	1730.0	1700.8	1699.5	1687.2
17.5°	1705.2	1692.8	1658.0	1651.3	1641.5
20°	1664.9	1651.3	1606.9	1600.0	1587.7
22.5°	1620.8	1606.9	1560.2	1544.8	1534.8
25°	1576.4	1555.6	1504.5	1486.6	1471.5
27.5°	1526.9	1501.7	1447.9	1424.5	1409.4
30°	1471.5	1445.3	1387.1	1355.5	1342.9
32.5°	1417.3	1385.8	1326.3	1290.3	1273.9
35°	1358.1	1325.0	1262.6	1222.6	1203.1
37.5°	1301.4	1261.1	1197.5	1150.8	1131.0
40°	1240.6	1199.0	1132.6	1080.0	1063.6
42.5°	1176.7	1133.9	1064.6	1015.1	988.7
45°	1111.8	1072.0	995.6	940.4	919.7
47.5°	1043.8	1002.8	926.3	869.9	846.3
50°	980.5	934.8	856.0	798.1	777.3
52.5°	911.2	864.5	790.9	727.3	706.5
55°	843.7	799.3	722.1	659.8	637.7
57.5°	774.5	727.3	652.9	591.8	572.6
60°	708.0	659.8	584.9	524.1	503.3
62.5°	637.7	591.8	515.9	460.5	439.7
65°	571.3	524.1	451.0	395.3	374.5
67.5°	504.6	457.9	387.1	334.8	318.4
70°	437.1	389.9	320.7	277.8	261.4
72.5°	370.7	325.0	261.4	222.7	213.2
75°	304.2	262.7	204.7	174.4	164.7
77.5°	236.3	203.2	154.7	131.6	123.1
80°	179.8	146.7	108.0	95.4	92.9
82.5°	124.4	95.4	72.1	67.5	66.4
85°	75.9	51.0	44.4	42.8	41.6
87.5°	32.1	22.1	20.8	20.8	19.2
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)