

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: P888195

Luminaire Tested: **DPT5-6FO44-127S40-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: P888195  
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: DPT5-6FO44-127S40-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

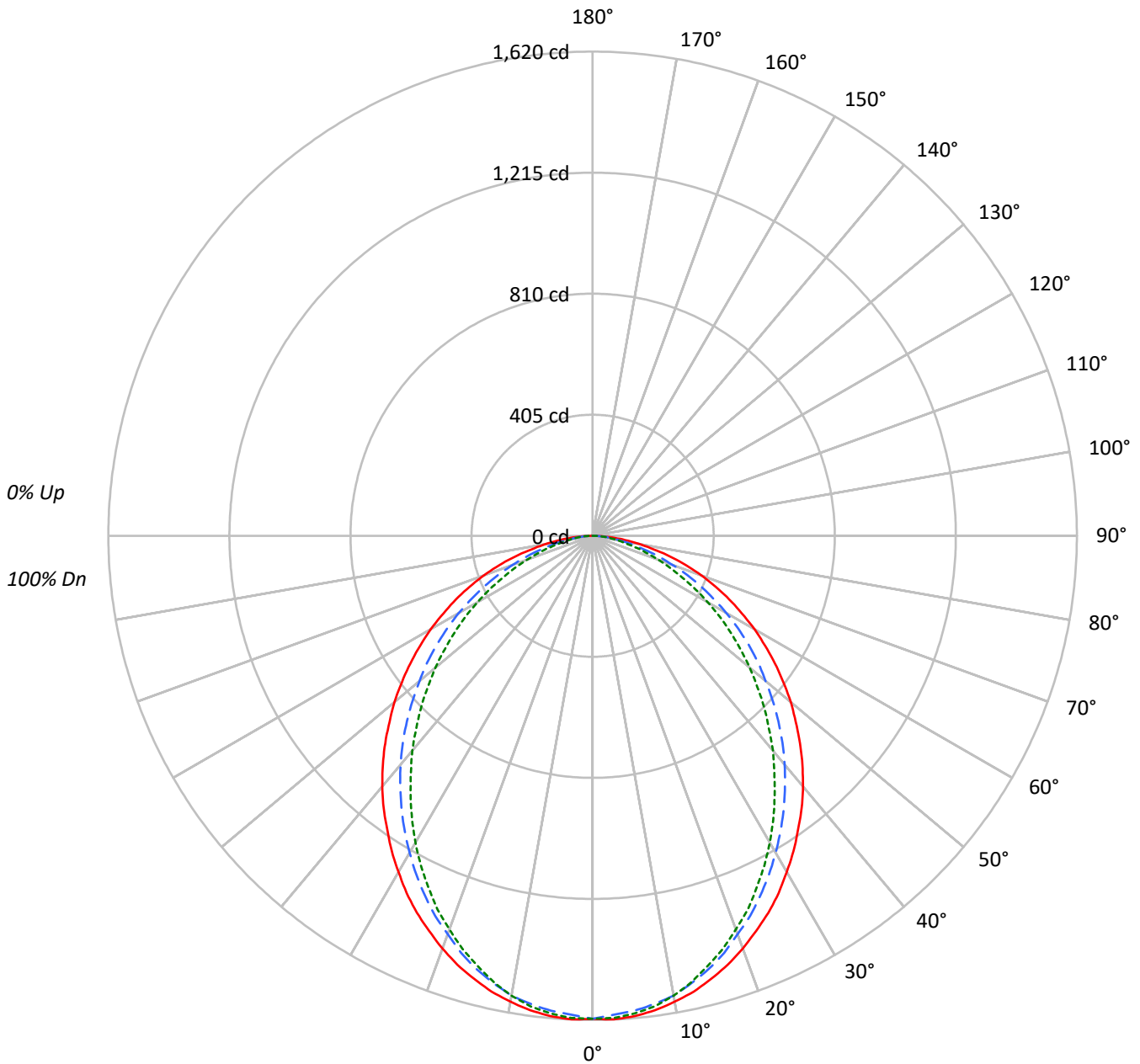
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3818.0 lumens  
Efficiency: N/A  
Efficacy: 103.2 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°	12494	12494	12494
5°	12522	12380	12454
10°	12427	12263	12263
15°	12280	12014	11918
20°	12089	11667	11528
25°	11868	11327	11078
30°	11593	10928	10580
35°	11312	10517	10021
40°	11050	10088	9473
45°	10727	9607	8874
50°	10407	9086	8251
55°	10036	8590	7586
60°	9662	7981	6868
65°	9223	7280	6048
70°	8720	6397	5215
75°	8020	5397	4343
80°	7065	4243	3651
85°	5943	3477	3255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.1	4.0
10°-20°	425.0	11.1
20°-30°	616.3	16.1
30°-40°	702.2	18.4
40°-50°	684.3	17.9
50°-60°	575.9	15.1
60°-70°	403.6	10.6
70°-80°	206.9	5.4
80°-90°	51.6	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°	1193.4	31.3
0°-40°	1895.6	49.6
0°-60°	3155.9	82.7
0°-90°	3818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3818.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1614	1609	1595	1607	1605	153
15°	1534	1527	1501	1500	1489	433
25°	1391	1373	1328	1312	1299	640
35°	1199	1169	1114	1079	1062	751
45°	981	946	879	830	812	757
55°	745	706	637	582	563	666
65°	504	462	398	349	331	499
75°	268	232	181	154	145	284
85°	67	45	39	38	37	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1616.1	1616.1	1616.1	1616.1	1616.1
2.5°	1619.7	1616.1	1603.9	1616.1	1614.7
5°	1613.6	1608.8	1595.3	1607.3	1604.8
7.5°	1601.4	1596.4	1580.5	1590.3	1588.0
10°	1583.0	1579.4	1562.2	1566.0	1562.2
12.5°	1562.2	1557.2	1532.8	1535.3	1529.4
15°	1534.3	1526.9	1501.1	1499.9	1489.1
17.5°	1504.9	1494.0	1463.3	1457.4	1448.8
20°	1469.4	1457.4	1418.2	1412.1	1401.2
22.5°	1430.4	1418.2	1377.0	1363.4	1354.6
25°	1391.3	1372.9	1327.9	1312.0	1298.7
27.5°	1347.6	1325.4	1277.8	1257.2	1243.9
30°	1298.7	1275.6	1224.2	1196.3	1185.2
32.5°	1250.9	1223.0	1170.5	1138.8	1124.3
35°	1198.6	1169.4	1114.4	1079.0	1061.8
37.5°	1148.6	1113.0	1056.9	1015.7	998.2
40°	1094.9	1058.2	999.6	953.2	938.7
42.5°	1038.5	1000.7	939.6	895.9	872.6
45°	981.2	946.1	878.7	830.0	811.7
47.5°	921.2	885.0	817.6	767.7	746.9
50°	865.3	825.0	755.5	704.3	686.0
52.5°	804.2	763.0	698.0	641.9	623.5
55°	744.6	705.5	637.3	582.3	562.8
57.5°	683.5	641.9	576.2	522.3	505.3
60°	624.9	582.3	516.2	462.5	444.2
62.5°	562.8	522.3	455.3	406.4	388.1
65°	504.2	462.5	398.0	348.9	330.6
67.5°	445.3	404.1	341.6	295.5	281.0
70°	385.8	344.1	283.0	245.2	230.7
72.5°	327.2	286.9	230.7	196.5	188.1
75°	268.5	231.8	180.7	154.0	145.4
77.5°	208.5	179.3	136.5	116.1	108.7
80°	158.7	129.5	95.3	84.2	82.0
82.5°	109.8	84.2	63.6	59.5	58.6
85°	67.0	45.1	39.2	37.8	36.7
87.5°	28.3	19.5	18.3	18.3	17.0
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)