

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: P888183

Luminaire Tested: **DPT5-6FO44-109S35-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: P888183  
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: DPT5-6FO44-109S35-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

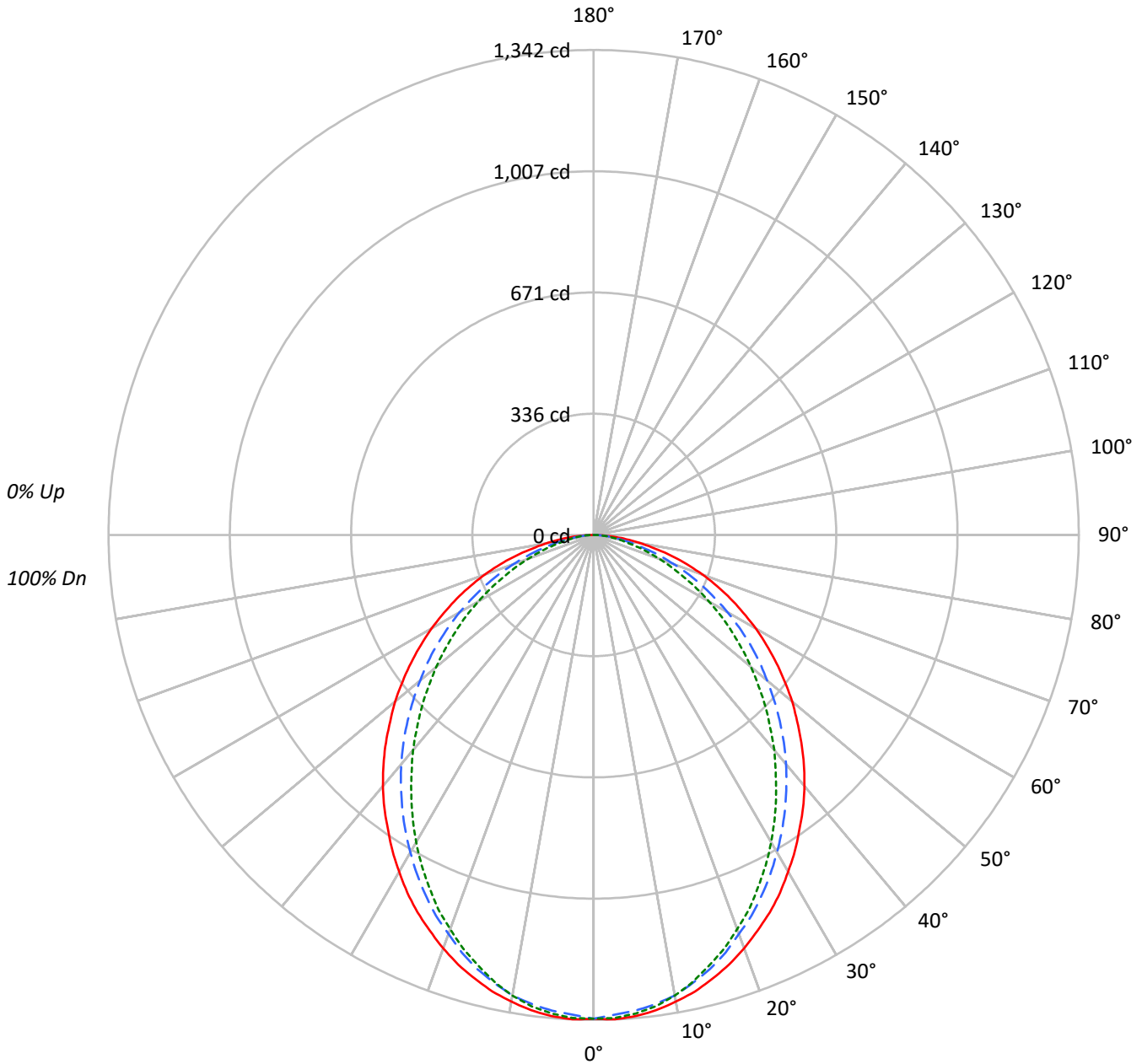
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3163.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 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): 31.8  
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°	10350	10350	10350
5°	10374	10256	10317
10°	10295	10160	10160
15°	10173	9953	9873
20°	10015	9666	9550
25°	9832	9384	9177
30°	9604	9054	8765
35°	9371	8713	8302
40°	9154	8357	7847
45°	8887	7958	7351
50°	8622	7528	6835
55°	8315	7117	6285
60°	8004	6611	5690
65°	7641	6031	5009
70°	7224	5300	4319
75°	6646	4471	3596
80°	5854	3517	3023
85°	4923	2874	2697



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	4.0
10°-20°	352.1	11.1
20°-30°	510.6	16.1
30°-40°	581.7	18.4
40°-50°	566.9	17.9
50°-60°	477.1	15.1
60°-70°	334.4	10.6
70°-80°	171.4	5.4
80°-90°	42.8	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°	988.7	31.3
0°-40°	1570.4	49.6
0°-60°	2614.5	82.7
0°-90°	3163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3163.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1337	1333	1322	1332	1330	127
15°	1271	1265	1244	1243	1234	358
25°	1153	1137	1100	1087	1076	530
35°	993	969	923	894	880	622
45°	813	784	728	688	672	627
55°	617	584	528	482	466	552
65°	418	383	330	289	274	414
75°	222	192	150	128	120	235
85°	56	37	32	31	30	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1338.8	1338.8	1338.8	1338.8	1338.8
2.5°	1341.8	1338.8	1328.7	1338.8	1337.7
5°	1336.8	1332.8	1321.6	1331.5	1329.5
7.5°	1326.6	1322.5	1309.4	1317.5	1315.6
10°	1311.4	1308.4	1294.2	1297.4	1294.2
12.5°	1294.2	1290.1	1269.8	1271.9	1267.0
15°	1271.1	1264.9	1243.6	1242.6	1233.6
17.5°	1246.7	1237.7	1212.2	1207.4	1200.2
20°	1217.3	1207.4	1174.9	1169.8	1160.8
22.5°	1185.0	1174.9	1140.8	1129.5	1122.2
25°	1152.6	1137.4	1100.1	1086.9	1075.9
27.5°	1116.4	1098.0	1058.6	1041.5	1030.5
30°	1075.9	1056.7	1014.2	991.1	981.9
32.5°	1036.3	1013.2	969.7	943.4	931.4
35°	993.0	968.8	923.2	893.9	879.7
37.5°	951.5	922.1	875.6	841.4	827.0
40°	907.1	876.7	828.1	789.6	777.6
42.5°	860.4	829.0	778.4	742.2	722.9
45°	812.9	783.8	727.9	687.6	672.4
47.5°	763.2	733.2	677.3	636.0	618.8
50°	716.9	683.5	625.9	583.5	568.3
52.5°	666.2	632.1	578.3	531.7	516.6
55°	616.9	584.5	528.0	482.4	466.3
57.5°	566.3	531.7	477.4	432.7	418.6
60°	517.7	482.4	427.6	383.2	368.0
62.5°	466.3	432.7	377.2	336.7	321.5
65°	417.7	383.2	329.7	289.0	273.8
67.5°	368.9	334.8	283.0	244.8	232.8
70°	319.6	285.1	234.5	203.1	191.1
72.5°	271.0	237.6	191.1	162.8	155.9
75°	222.5	192.1	149.7	127.5	120.4
77.5°	172.7	148.6	113.1	96.2	90.0
80°	131.5	107.3	79.0	69.8	67.9
82.5°	91.0	69.8	52.7	49.3	48.6
85°	55.5	37.3	32.4	31.3	30.4
87.5°	23.4	16.1	15.2	15.2	14.1
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)