

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: P888184

Luminaire Tested: **DPT5-6FO44-109S40-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: P888184  
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: DPT5-6FO44-109S40-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

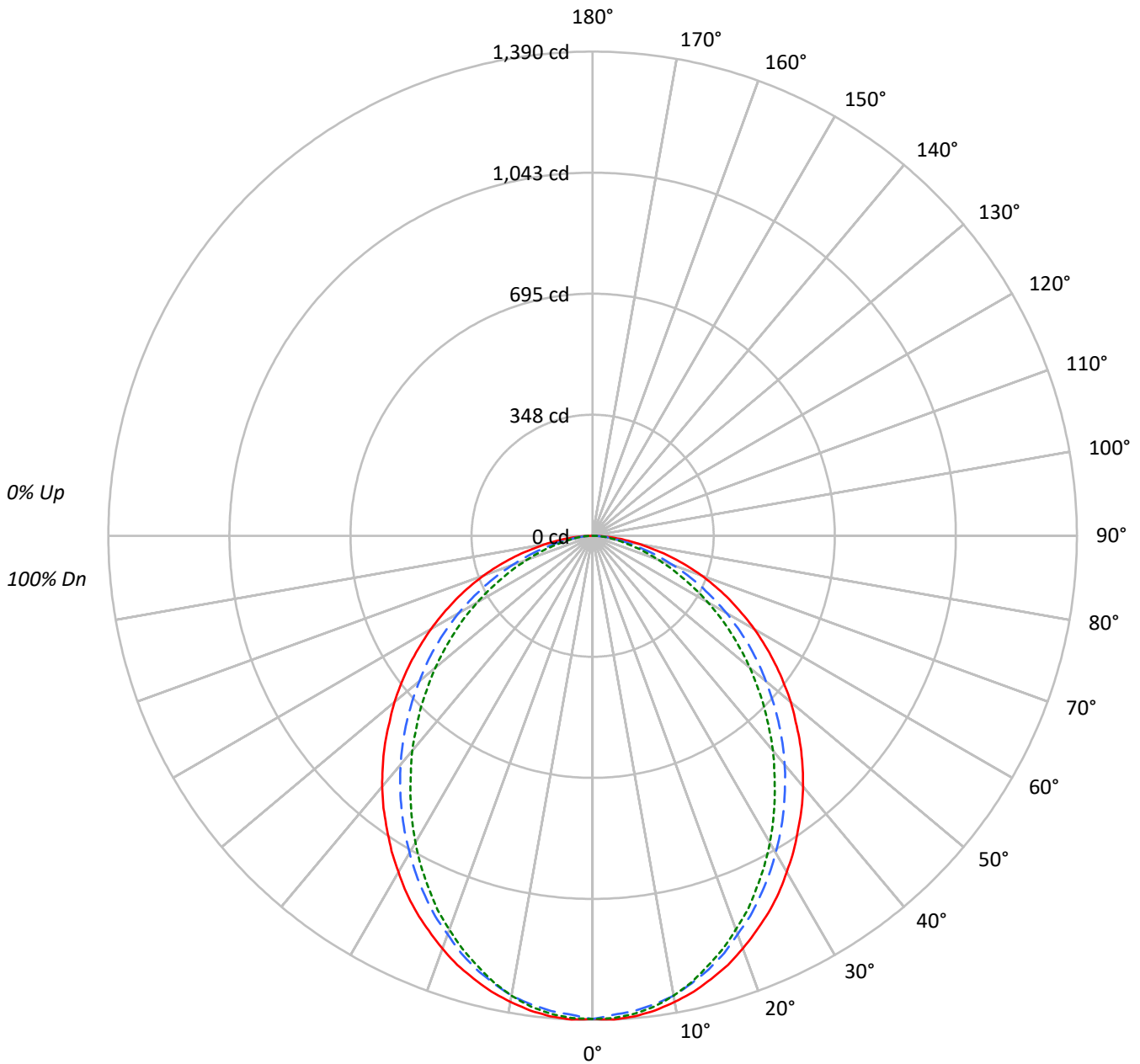
Lumens per Lamp: N/A  
Luminaire Lumens: 3277.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	10723	10723	10723
5°	10748	10625	10689
10°	10666	10525	10525
15°	10540	10312	10229
20°	10376	10014	9895
25°	10186	9722	9508
30°	9950	9379	9081
35°	9709	9027	8601
40°	9484	8658	8131
45°	9208	8246	7617
50°	8932	7799	7081
55°	8614	7373	6511
60°	8292	6851	5896
65°	7917	6249	5190
70°	7484	5490	4475
75°	6885	4633	3728
80°	6064	3642	3130
85°	5100	2980	2794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.5	4.0
10°-20°	364.8	11.1
20°-30°	529.0	16.1
30°-40°	602.7	18.4
40°-50°	587.4	17.9
50°-60°	494.3	15.1
60°-70°	346.4	10.6
70°-80°	177.6	5.4
80°-90°	44.3	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°	1024.3	31.3
0°-40°	1627.0	49.6
0°-60°	2708.7	82.7
0°-90°	3277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3277.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1385	1381	1369	1380	1377	131
15°	1317	1310	1288	1287	1278	371
25°	1194	1178	1140	1126	1115	550
35°	1029	1004	956	926	911	644
45°	842	812	754	712	697	650
55°	639	606	547	500	483	571
65°	433	397	342	300	284	428
75°	230	199	155	132	125	244
85°	58	39	34	32	32	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1387.1	1387.1	1387.1	1387.1	1387.1
2.5°	1390.2	1387.1	1376.6	1387.1	1385.9
5°	1385.0	1380.9	1369.2	1379.5	1377.4
7.5°	1374.5	1370.2	1356.6	1364.9	1363.0
10°	1358.7	1355.6	1340.8	1344.1	1340.8
12.5°	1340.8	1336.6	1315.6	1317.7	1312.7
15°	1316.9	1310.5	1288.4	1287.4	1278.1
17.5°	1291.7	1282.3	1255.9	1250.9	1243.5
20°	1261.2	1250.9	1217.2	1212.0	1202.7
22.5°	1227.7	1217.2	1181.9	1170.2	1162.6
25°	1194.1	1178.4	1139.7	1126.1	1114.6
27.5°	1156.6	1137.6	1096.8	1079.1	1067.6
30°	1114.6	1094.8	1050.7	1026.8	1017.3
32.5°	1073.6	1049.7	1004.7	977.5	965.0
35°	1028.8	1003.7	956.5	926.2	911.4
37.5°	985.8	955.3	907.1	871.7	856.8
40°	939.8	908.3	857.9	818.1	805.7
42.5°	891.4	858.9	806.4	768.9	748.9
45°	842.2	812.1	754.2	712.4	696.7
47.5°	790.7	759.6	701.7	659.0	641.1
50°	742.7	708.1	648.5	604.5	588.8
52.5°	690.2	654.9	599.1	550.9	535.2
55°	639.1	605.5	547.0	499.8	483.1
57.5°	586.7	550.9	494.6	448.3	433.7
60°	536.3	499.8	443.1	397.0	381.3
62.5°	483.1	448.3	390.8	348.8	333.1
65°	432.8	397.0	341.6	299.5	283.7
67.5°	382.2	346.9	293.2	253.6	241.2
70°	331.1	295.4	242.9	210.5	198.0
72.5°	280.8	246.2	198.0	168.7	161.5
75°	230.5	199.0	155.1	132.1	124.8
77.5°	179.0	153.9	117.2	99.7	93.3
80°	136.2	111.2	81.8	72.3	70.3
82.5°	94.2	72.3	54.6	51.1	50.3
85°	57.5	38.7	33.6	32.5	31.5
87.5°	24.3	16.7	15.7	15.7	14.6
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)