

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: P888466

Luminaire Tested: **DPT5-6FO44-109V60-F-XX-UDD\_6500K**

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: P888466  
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: DPT5-6FO44-109V60-F-XX-UDD\_6500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

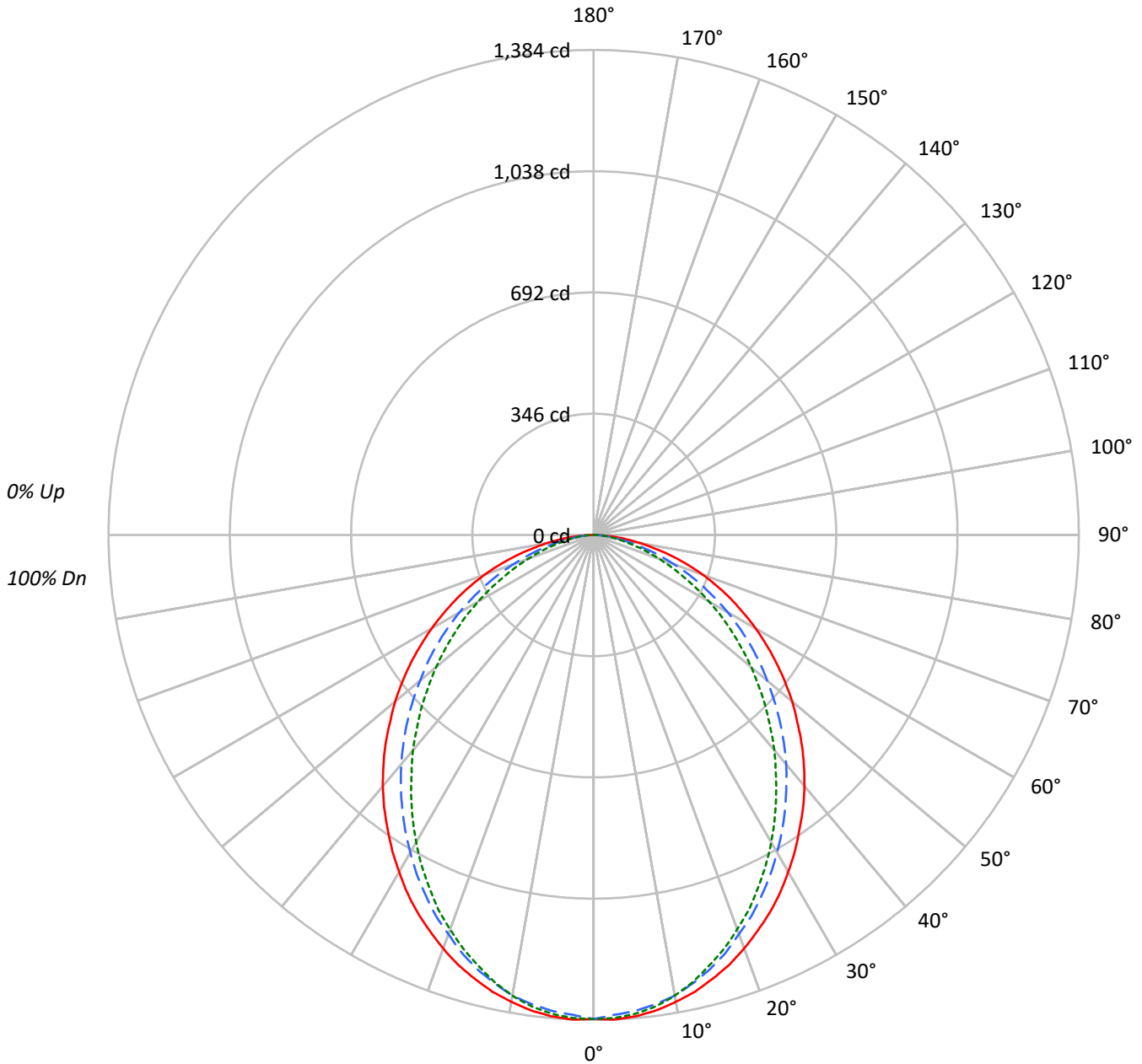
Lumens per Lamp: N/A  
Luminaire Lumens: 3263.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

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°	10678	10678	10678
5°	10701	10580	10643
10°	10620	10481	10481
15°	10495	10268	10185
20°	10331	9971	9852
25°	10142	9680	9467
30°	9908	9339	9042
35°	9668	8988	8565
40°	9443	8621	8096
45°	9168	8211	7584
50°	8894	7766	7051
55°	8578	7342	6483
60°	8256	6822	5869
65°	7882	6223	5168
70°	7452	5468	4457
75°	6855	4612	3710
80°	6037	3628	3116
85°	5083	2971	2776



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.0	4.0
10°-20°	363.2	11.1
20°-30°	526.7	16.1
30°-40°	600.1	18.4
40°-50°	584.9	17.9
50°-60°	492.2	15.1
60°-70°	344.9	10.6
70°-80°	176.9	5.4
80°-90°	44.1	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°	1019.9	31.3
0°-40°	1620.0	49.6
0°-60°	2697.1	82.7
0°-90°	3263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1381	1381	1381	1381	1381	
5°	1379	1375	1363	1374	1372	131
15°	1311	1305	1283	1282	1273	370
25°	1189	1173	1135	1121	1110	547
35°	1024	999	952	922	908	641
45°	839	809	751	709	694	647
55°	636	603	545	498	481	569
65°	431	395	340	298	282	427
75°	230	198	154	132	124	243
85°	57	38	34	32	31	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1381.2	1381.2	1381.2	1381.2	1381.2
2.5°	1384.3	1381.2	1370.7	1381.2	1380.0
5°	1379.0	1375.0	1363.4	1373.6	1371.5
7.5°	1368.6	1364.3	1350.8	1359.1	1357.2
10°	1352.9	1349.8	1335.1	1338.4	1335.1
12.5°	1335.1	1330.9	1310.0	1312.1	1307.1
15°	1311.3	1304.9	1282.9	1281.9	1272.6
17.5°	1286.2	1276.9	1250.6	1245.5	1238.2
20°	1255.8	1245.5	1212.0	1206.8	1197.5
22.5°	1222.5	1212.0	1176.8	1165.2	1157.7
25°	1189.0	1173.3	1134.8	1121.3	1109.9
27.5°	1151.7	1132.7	1092.1	1074.5	1063.1
30°	1109.9	1090.1	1046.2	1022.4	1012.9
32.5°	1069.1	1045.3	1000.4	973.3	960.9
35°	1024.4	999.4	952.4	922.2	907.5
37.5°	981.6	951.2	903.2	868.0	853.1
40°	935.7	904.4	854.3	814.6	802.2
42.5°	887.6	855.2	803.0	765.7	745.7
45°	838.6	808.6	751.0	709.3	693.7
47.5°	787.3	756.4	698.7	656.1	638.3
50°	739.5	705.1	645.7	602.0	586.3
52.5°	687.3	652.1	596.5	548.6	532.9
55°	636.4	602.9	544.7	497.7	481.0
57.5°	584.2	548.6	492.4	446.4	431.9
60°	534.0	497.7	441.2	395.3	379.6
62.5°	481.0	446.4	389.1	347.3	331.6
65°	430.9	395.3	340.2	298.2	282.5
67.5°	380.6	345.4	292.0	252.5	240.1
70°	329.7	294.1	241.9	209.6	197.2
72.5°	279.6	245.2	197.2	168.0	160.8
75°	229.5	198.1	154.4	131.6	124.2
77.5°	178.2	153.2	116.7	99.3	92.9
80°	135.6	110.7	81.5	72.0	70.0
82.5°	93.8	72.0	54.4	50.9	50.1
85°	57.3	38.5	33.5	32.3	31.3
87.5°	24.2	16.6	15.7	15.7	14.5
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)