

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: P888515

Luminaire Tested: **DPT5-6FO55-109V60-F-XX-UDD\_2700K**

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: P888515  
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: DPT5-6FO55-109V60-F-XX-UDD\_2700K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

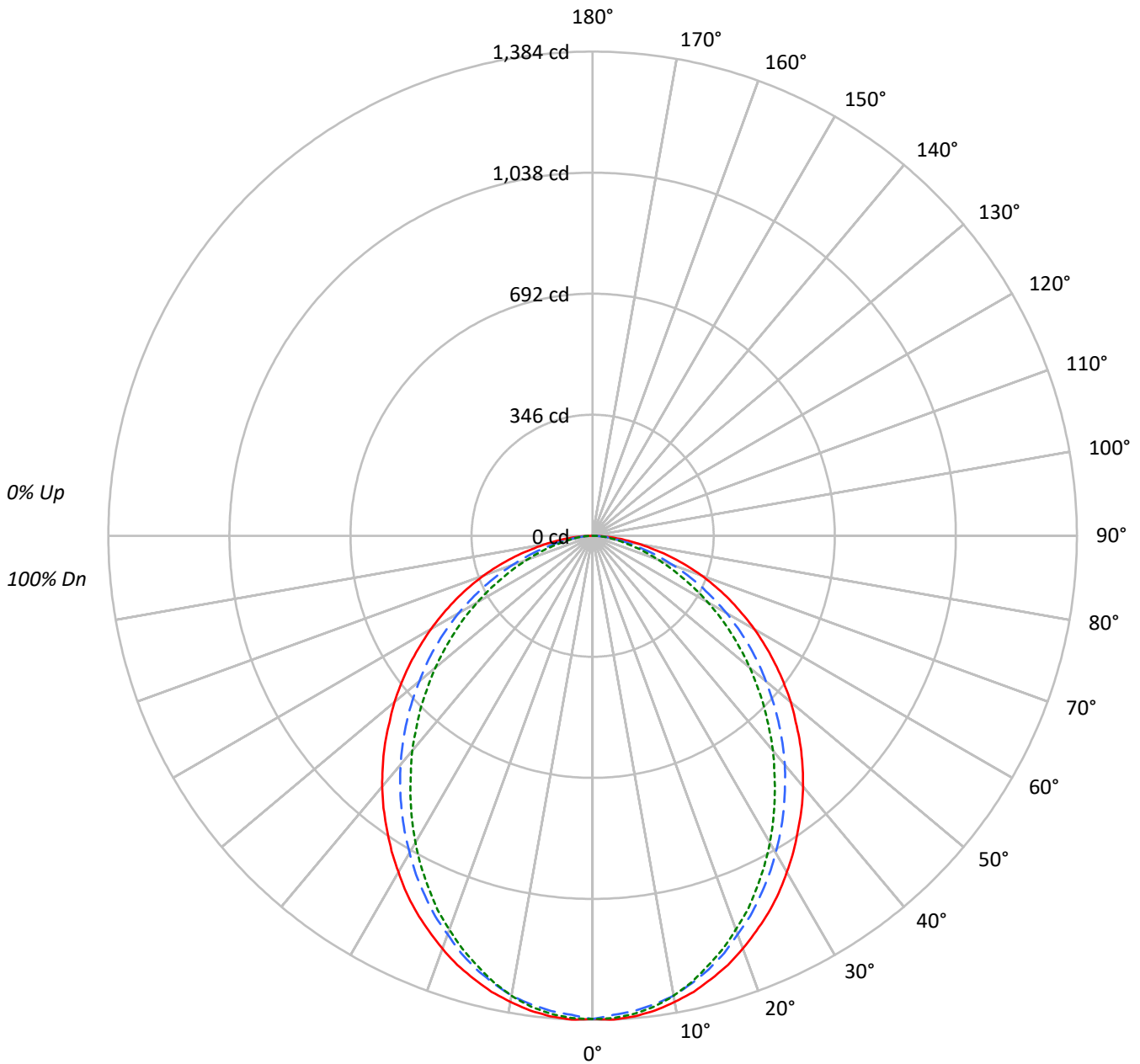
Lumens per Lamp: N/A  
Luminaire Lumens: 3263.0 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.6  
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°	8821	8821	8821
5°	8840	8740	8792
10°	8773	8658	8658
15°	8670	8482	8414
20°	8535	8237	8138
25°	8378	7996	7821
30°	8185	7715	7469
35°	7986	7425	7075
40°	7801	7122	6688
45°	7574	6783	6265
50°	7347	6415	5825
55°	7086	6065	5356
60°	6821	5635	4848
65°	6511	5141	4269
70°	6156	4517	3682
75°	5663	3810	3065
80°	4987	2997	2574
85°	4199	2455	2293



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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)