

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: P888516

Luminaire Tested: **DPT5-6FO55-109V60-F-XX-UDD_3000K**

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: P888516
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_3000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

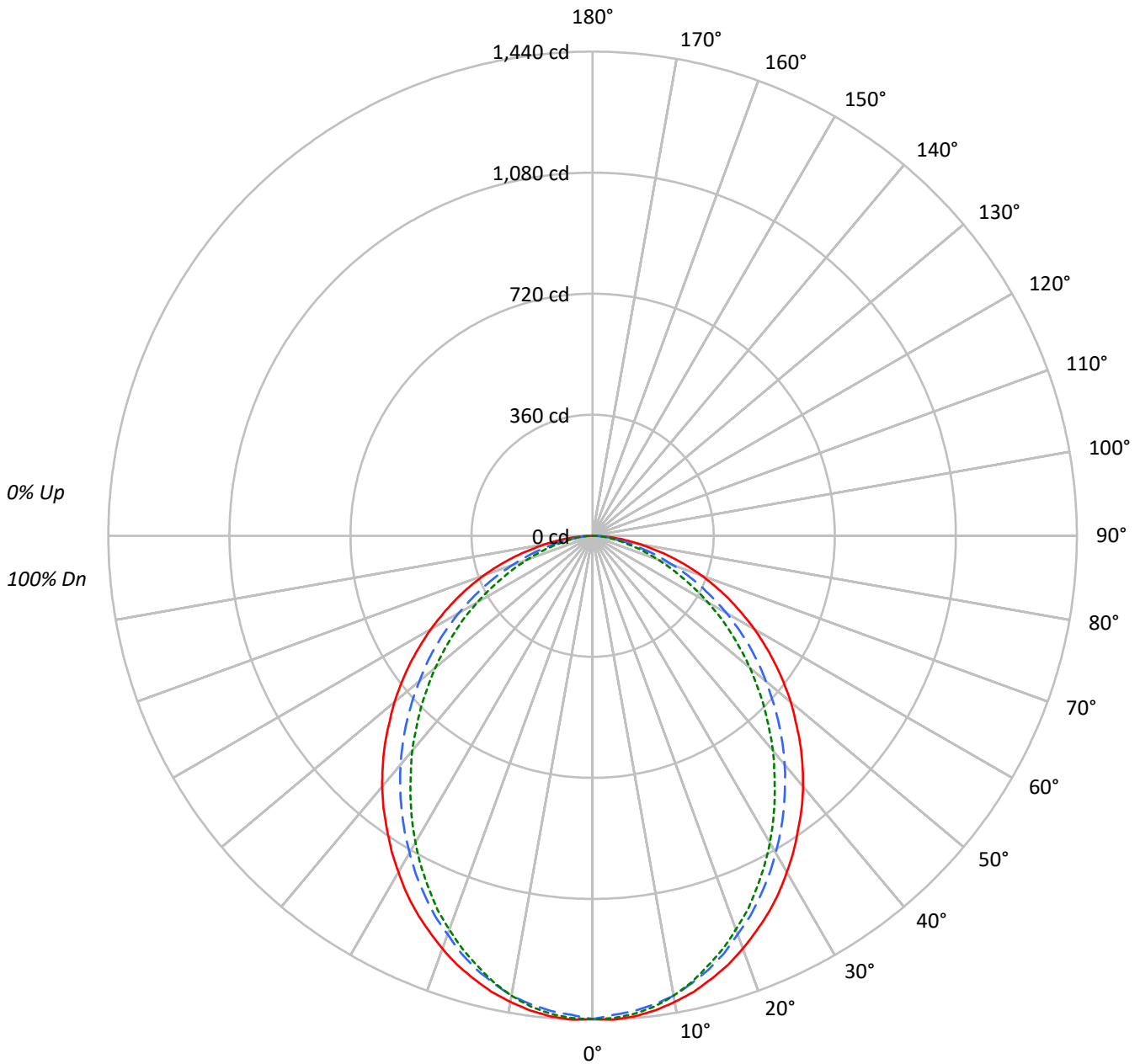
Lumens per Lamp: N/A
Luminaire Lumens: 3395.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	9177	9177	9177
5°	9198	9094	9148
10°	9128	9008	9008
15°	9021	8825	8754
20°	8880	8571	8468
25°	8717	8321	8137
30°	8516	8027	7772
35°	8309	7725	7361
40°	8117	7410	6959
45°	7880	7056	6518
50°	7645	6675	6061
55°	7372	6310	5573
60°	7096	5863	5045
65°	6774	5348	4441
70°	6406	4700	3830
75°	5892	3965	3188
80°	5189	3119	2681
85°	4367	2550	2389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	4.0
10°-20°	377.9	11.1
20°-30°	548.0	16.1
30°-40°	624.4	18.4
40°-50°	608.5	17.9
50°-60°	512.1	15.1
60°-70°	358.9	10.6
70°-80°	184.0	5.4
80°-90°	45.9	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°	1061.2	31.3
0°-40°	1685.5	49.6
0°-60°	2806.2	82.7
0°-90°	3395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1435	1431	1418	1429	1427	136
15°	1364	1358	1335	1334	1324	385
25°	1237	1221	1181	1167	1155	569
35°	1066	1040	991	960	944	667
45°	872	841	781	738	722	673
55°	662	627	567	518	500	592
65°	448	411	354	310	294	444
75°	239	206	161	137	129	252
85°	60	40	35	34	33	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.0	1437.0	1437.0	1437.0	1437.0
2.5°	1440.3	1437.0	1426.2	1437.0	1435.8
5°	1434.8	1430.6	1418.5	1429.2	1427.0
7.5°	1423.9	1419.5	1405.4	1414.1	1412.1
10°	1407.6	1404.4	1389.1	1392.5	1389.1
12.5°	1389.1	1384.7	1362.9	1365.2	1359.9
15°	1364.4	1357.7	1334.8	1333.8	1324.1
17.5°	1338.2	1328.5	1301.1	1295.9	1288.3
20°	1306.6	1295.9	1261.1	1255.6	1246.0
22.5°	1272.0	1261.1	1224.4	1212.4	1204.5
25°	1237.1	1220.8	1180.8	1166.7	1154.8
27.5°	1198.3	1178.5	1136.3	1117.9	1106.1
30°	1154.8	1134.2	1088.5	1063.8	1053.9
32.5°	1112.3	1087.5	1040.8	1012.6	999.8
35°	1065.8	1039.8	990.9	959.5	944.2
37.5°	1021.3	989.7	939.8	903.1	887.6
40°	973.6	941.0	888.8	847.6	834.7
42.5°	923.5	889.8	835.5	796.6	775.9
45°	872.5	841.3	781.3	738.0	721.7
47.5°	819.2	787.0	727.0	682.7	664.2
50°	769.5	733.6	671.8	626.3	610.0
52.5°	715.1	678.5	620.7	570.7	554.4
55°	662.1	627.3	566.7	517.8	500.5
57.5°	607.8	570.7	512.4	464.4	449.4
60°	555.6	517.8	459.0	411.3	395.0
62.5°	500.5	464.4	404.9	361.4	345.1
65°	448.3	411.3	353.9	310.2	293.9
67.5°	396.0	359.4	303.8	262.7	249.8
70°	343.1	306.0	251.7	218.0	205.1
72.5°	290.9	255.1	205.1	174.7	167.3
75°	238.8	206.2	160.7	136.9	129.2
77.5°	185.4	159.4	121.4	103.3	96.6
80°	141.1	115.2	84.8	74.9	72.9
82.5°	97.6	74.9	56.6	52.9	52.1
85°	59.6	40.1	34.8	33.6	32.6
87.5°	25.2	17.3	16.3	16.3	15.1
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)