

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: P888467

Luminaire Tested: **DPT5-6FO44-127S27-F-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: P888467
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: DPT5-6FO44-127S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

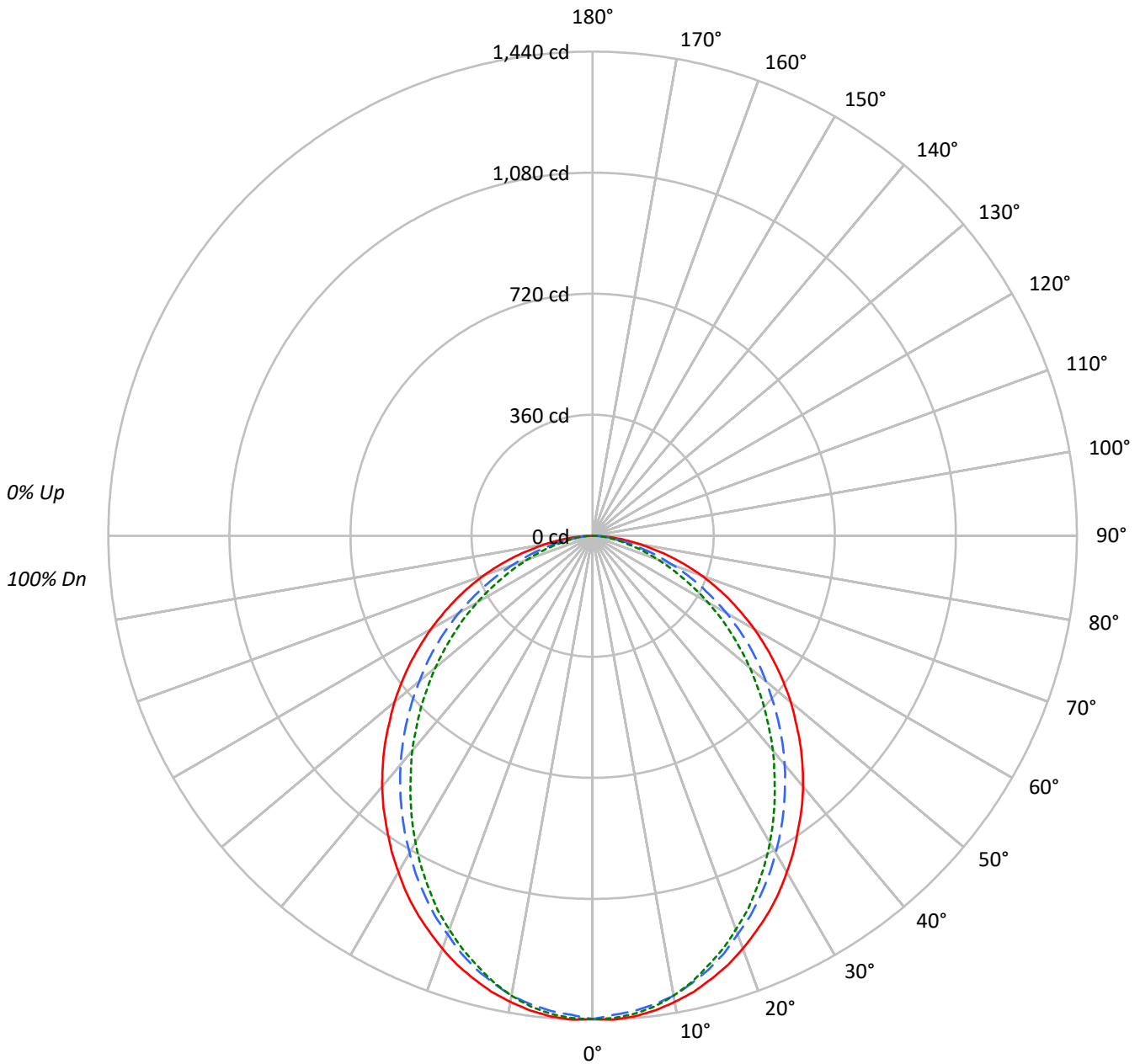
Lumens per Lamp: N/A
Luminaire Lumens: 3395.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	11109	11109	11109
5°	11135	11008	11074
10°	11050	10905	10905
15°	10920	10683	10597
20°	10749	10375	10251
25°	10552	10072	9850
30°	10309	9717	9408
35°	10059	9352	8911
40°	9825	8970	8424
45°	9539	8542	7890
50°	9255	8080	7336
55°	8924	7638	6746
60°	8590	7097	6107
65°	8201	6474	5376
70°	7755	5689	4636
75°	7133	4800	3859
80°	6282	3775	3245
85°	5287	3087	2892



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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)