

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: P888193

Luminaire Tested: **DPT5-6FO44-127S30-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: P888193
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: DPT5-6FO44-127S30-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

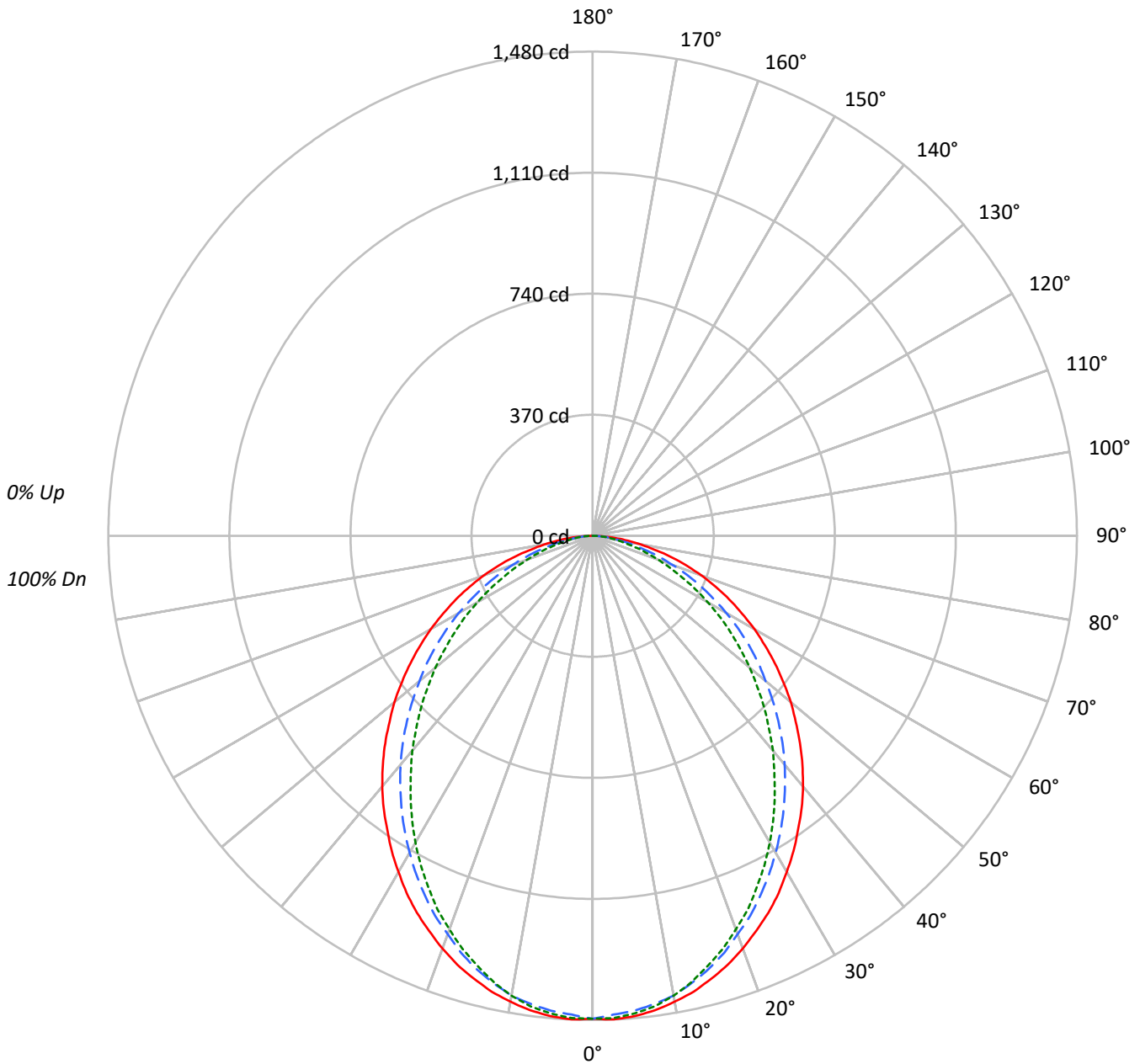
Lumens per Lamp: N/A
Luminaire Lumens: 3488.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	11414	11414	11414
5°	11439	11310	11377
10°	11353	11204	11204
15°	11219	10975	10888
20°	11044	10659	10531
25°	10842	10348	10120
30°	10591	9984	9666
35°	10334	9607	9155
40°	10095	9216	8654
45°	9800	8776	8107
50°	9507	8301	7537
55°	9169	7847	6931
60°	8827	7292	6274
65°	8426	6651	5524
70°	7965	5843	4765
75°	7327	4931	3967
80°	6455	3878	3335
85°	5428	3175	2971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	4.0
10°-20°	388.3	11.1
20°-30°	563.0	16.1
30°-40°	641.5	18.4
40°-50°	625.2	17.9
50°-60°	526.2	15.1
60°-70°	368.7	10.6
70°-80°	189.0	5.4
80°-90°	47.2	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°	1090.3	31.3
0°-40°	1731.7	49.6
0°-60°	2883.1	82.7
0°-90°	3488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1474	1470	1457	1468	1466	140
15°	1402	1395	1371	1370	1360	395
25°	1271	1254	1213	1199	1186	585
35°	1095	1068	1018	986	970	686
45°	896	864	803	758	742	691
55°	680	644	582	532	514	608
65°	461	423	364	319	302	456
75°	245	212	165	141	133	259
85°	61	41	36	34	34	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1476.4	1476.4	1476.4	1476.4	1476.4
2.5°	1479.7	1476.4	1465.2	1476.4	1475.2
5°	1474.1	1469.8	1457.4	1468.3	1466.1
7.5°	1463.0	1458.4	1443.9	1452.8	1450.8
10°	1446.2	1442.9	1427.2	1430.7	1427.2
12.5°	1427.2	1422.6	1400.3	1402.6	1397.2
15°	1401.7	1394.9	1371.3	1370.3	1360.4
17.5°	1374.8	1364.9	1336.8	1331.4	1323.5
20°	1342.4	1331.4	1295.6	1290.0	1280.1
22.5°	1306.8	1295.6	1258.0	1245.6	1237.5
25°	1271.0	1254.3	1213.1	1198.6	1186.4
27.5°	1231.1	1210.8	1167.4	1148.6	1136.4
30°	1186.4	1165.3	1118.4	1092.9	1082.8
32.5°	1142.8	1117.3	1069.3	1040.4	1027.2
35°	1095.0	1068.3	1018.0	985.8	970.1
37.5°	1049.3	1016.8	965.5	927.9	911.9
40°	1000.3	966.8	913.2	870.8	857.5
42.5°	948.8	914.2	858.4	818.5	797.1
45°	896.4	864.4	802.7	758.3	741.5
47.5°	841.6	808.5	746.9	701.4	682.4
50°	790.5	753.7	690.2	643.5	626.7
52.5°	734.7	697.0	637.7	586.4	569.6
55°	680.3	644.5	582.2	532.0	514.2
57.5°	624.4	586.4	526.4	477.2	461.7
60°	570.9	532.0	471.6	422.6	405.8
62.5°	514.2	477.2	415.9	371.3	354.5
65°	460.6	422.6	363.6	318.7	302.0
67.5°	406.8	369.2	312.1	269.9	256.7
70°	352.4	314.4	258.5	224.0	210.8
72.5°	298.9	262.1	210.8	179.5	171.9
75°	245.3	211.8	165.1	140.6	132.8
77.5°	190.5	163.8	124.7	106.1	99.3
80°	145.0	118.3	87.1	76.9	74.9
82.5°	100.3	76.9	58.1	54.4	53.6
85°	61.2	41.2	35.8	34.5	33.5
87.5°	25.9	17.8	16.8	16.8	15.5
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)