

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: P888474

Luminaire Tested: **DPT5-6FO44-127V60-F-XX-UDD_4000K**

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: P888474
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: DPT5-6FO44-127V60-F-XX-UDD_4000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

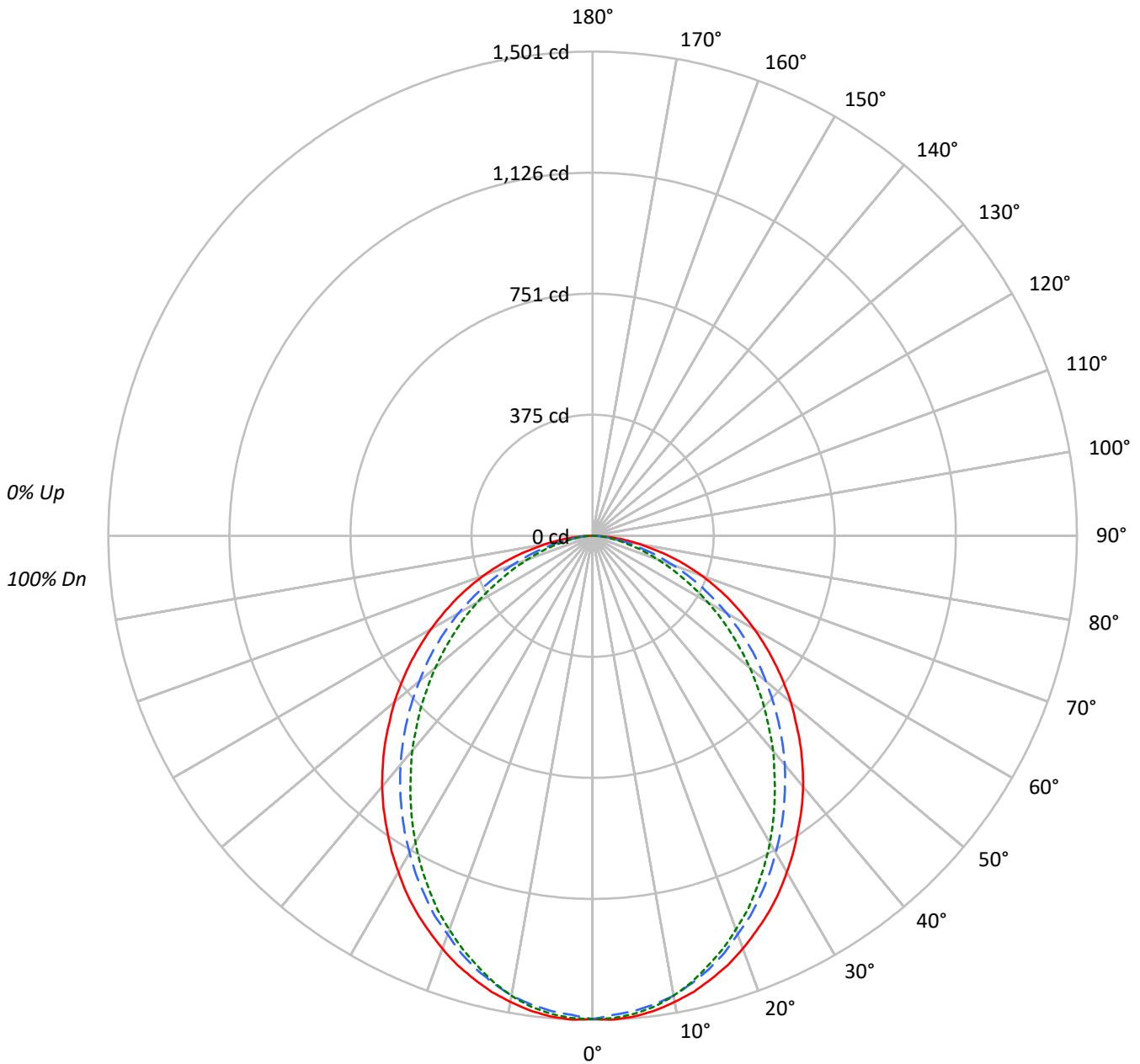
Lumens per Lamp: N/A
Luminaire Lumens: 3539.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 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				20				20	
RC	80				70				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				100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61				61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53				53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36				36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33				33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29				29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11581	11581	11581
5°	11607	11475	11543
10°	11518	11367	11367
15°	11383	11136	11047
20°	11205	10815	10685
25°	11000	10499	10268
30°	10746	10129	9807
35°	10485	9748	9288
40°	10242	9350	8781
45°	9944	8905	8226
50°	9647	8422	7648
55°	9303	7963	7032
60°	8955	7398	6366
65°	8550	6748	5605
70°	8083	5929	4833
75°	7435	5003	4023
80°	6549	3936	3384
85°	5508	3220	3016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	4.0
10°-20°	394.0	11.1
20°-30°	571.3	16.1
30°-40°	650.8	18.4
40°-50°	634.3	17.9
50°-60°	533.9	15.1
60°-70°	374.1	10.6
70°-80°	191.8	5.4
80°-90°	47.8	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°	1106.2	31.3
0°-40°	1757.0	49.6
0°-60°	2925.2	82.7
0°-90°	3539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1496	1491	1479	1490	1488	142
15°	1422	1415	1391	1390	1380	401
25°	1290	1273	1231	1216	1204	594
35°	1111	1084	1033	1000	984	696
45°	910	877	814	769	752	701
55°	690	654	591	540	522	617
65°	467	429	369	323	306	463
75°	249	215	168	143	135	263
85°	62	42	36	35	34	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1498.0	1498.0	1498.0	1498.0	1498.0
2.5°	1501.3	1498.0	1486.7	1498.0	1496.7
5°	1495.7	1491.3	1478.7	1489.8	1487.5
7.5°	1484.3	1479.7	1465.0	1474.1	1472.0
10°	1467.3	1464.0	1448.0	1451.6	1448.0
12.5°	1448.0	1443.4	1420.8	1423.1	1417.6
15°	1422.2	1415.3	1391.4	1390.3	1380.3
17.5°	1394.9	1384.9	1356.3	1350.9	1342.9
20°	1362.0	1350.9	1314.6	1308.9	1298.8
22.5°	1325.9	1314.6	1276.4	1263.8	1255.6
25°	1289.6	1272.6	1230.8	1216.1	1203.8
27.5°	1249.1	1228.5	1184.5	1165.4	1153.0
30°	1203.8	1182.4	1134.7	1108.9	1098.6
32.5°	1159.5	1133.7	1085.0	1055.6	1042.2
35°	1111.0	1083.9	1032.9	1000.2	984.2
37.5°	1064.6	1031.7	979.6	941.4	925.3
40°	1014.9	980.9	926.5	883.5	870.1
42.5°	962.6	927.6	870.9	830.4	808.8
45°	909.5	877.0	814.5	769.4	752.4
47.5°	853.9	820.3	757.8	711.6	692.3
50°	802.1	764.7	700.3	652.9	635.9
52.5°	745.4	707.2	647.0	595.0	578.0
55°	690.2	653.9	590.8	539.8	521.7
57.5°	633.6	595.0	534.1	484.1	468.4
60°	579.2	539.8	478.5	428.7	411.7
62.5°	521.7	484.1	422.0	376.7	359.7
65°	467.4	428.7	368.9	323.4	306.4
67.5°	412.8	374.6	316.7	273.9	260.4
70°	357.6	319.0	262.3	227.3	213.8
72.5°	303.2	265.9	213.8	182.2	174.4
75°	248.9	214.9	167.5	142.7	134.7
77.5°	193.3	166.2	126.5	107.7	100.7
80°	147.1	120.0	88.4	78.1	76.0
82.5°	101.8	78.1	59.0	55.2	54.4
85°	62.1	41.8	36.3	35.0	34.0
87.5°	26.2	18.0	17.0	17.0	15.7
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)