

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: P888251

Luminaire Tested: **DPT5-6FO55-127V60-A-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: P888251
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: DPT5-6FO55-127V60-A-XX-UDD_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

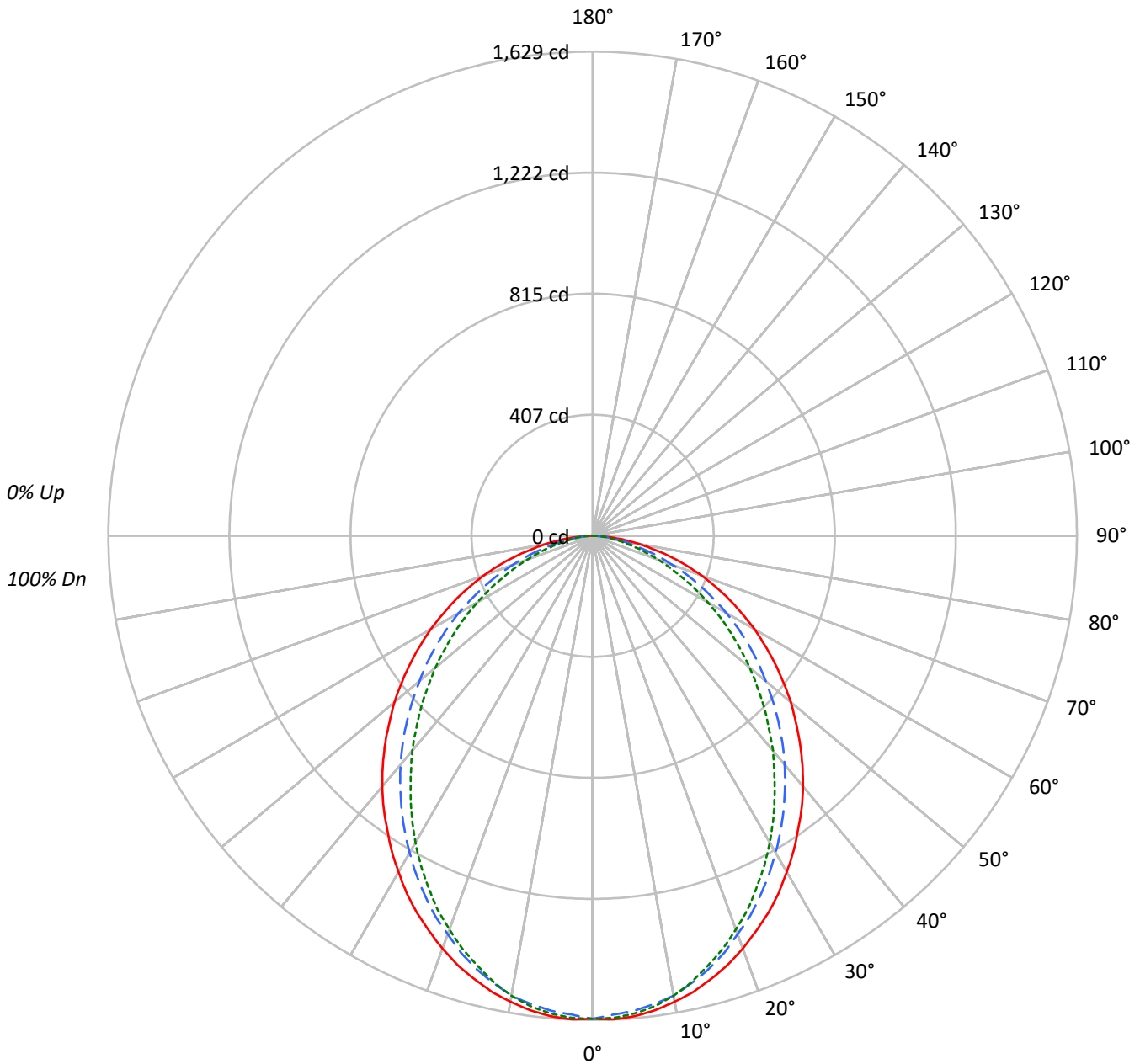
Lumens per Lamp: N/A
Luminaire Lumens: 3839.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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°	10378	10378	10378
5°	10401	10283	10344
10°	10322	10186	10186
15°	10200	9979	9900
20°	10041	9691	9575
25°	9857	9409	9201
30°	9629	9077	8789
35°	9396	8736	8324
40°	9178	8379	7868
45°	8911	7979	7371
50°	8645	7548	6853
55°	8336	7135	6301
60°	8025	6629	5706
65°	7661	6048	5023
70°	7243	5314	4332
75°	6662	4483	3607
80°	5870	3523	3030
85°	4939	2887	2704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	4.0
10°-20°	427.4	11.1
20°-30°	619.7	16.1
30°-40°	706.0	18.4
40°-50°	688.1	17.9
50°-60°	579.1	15.1
60°-70°	405.8	10.6
70°-80°	208.1	5.4
80°-90°	51.9	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°	1200.0	31.3
0°-40°	1906.0	49.6
0°-60°	3173.2	82.7
0°-90°	3839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1622	1618	1604	1616	1614	154
15°	1543	1535	1509	1508	1497	435
25°	1399	1380	1335	1319	1306	644
35°	1205	1176	1120	1085	1068	755
45°	987	951	884	835	816	761
55°	749	709	641	586	566	669
65°	507	465	400	351	332	502
75°	270	233	182	155	146	285
85°	67	45	39	38	37	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1625.0	1625.0	1625.0	1625.0	1625.0
2.5°	1628.6	1625.0	1612.7	1625.0	1623.6
5°	1622.5	1617.7	1604.0	1616.1	1613.6
7.5°	1610.2	1605.2	1589.2	1599.0	1596.7
10°	1591.7	1588.1	1570.8	1574.7	1570.8
12.5°	1570.8	1565.8	1541.2	1543.7	1537.8
15°	1542.8	1535.3	1509.3	1508.2	1497.3
17.5°	1513.2	1502.3	1471.3	1465.4	1456.7
20°	1477.5	1465.4	1426.0	1419.9	1408.9
22.5°	1438.3	1426.0	1384.6	1370.9	1362.0
25°	1398.9	1380.5	1335.2	1319.2	1305.8
27.5°	1355.0	1332.7	1284.9	1264.1	1250.7
30°	1305.8	1282.6	1230.9	1202.9	1191.8
32.5°	1257.8	1229.8	1177.0	1145.1	1130.5
35°	1205.2	1175.8	1120.5	1085.0	1067.7
37.5°	1154.9	1119.1	1062.7	1021.2	1003.7
40°	1100.9	1064.0	1005.1	958.4	943.8
42.5°	1044.2	1006.2	944.8	900.8	877.4
45°	986.6	951.4	883.5	834.6	816.1
47.5°	926.3	889.9	822.0	772.0	751.0
50°	870.1	829.6	759.7	708.2	689.8
52.5°	808.6	767.2	701.8	645.4	627.0
55°	748.7	709.4	640.8	585.5	565.9
57.5°	687.3	645.4	579.4	525.2	508.1
60°	628.3	585.5	519.0	465.1	446.7
62.5°	565.9	525.2	457.8	408.6	390.2
65°	507.0	465.1	400.2	350.8	332.4
67.5°	447.8	406.4	343.5	297.1	282.5
70°	387.9	346.0	284.6	246.5	232.0
72.5°	329.0	288.4	232.0	197.6	189.2
75°	270.0	233.1	181.7	154.8	146.2
77.5°	209.7	180.3	137.3	116.8	109.3
80°	159.6	130.2	95.8	84.7	82.4
82.5°	110.4	84.7	64.0	59.9	59.0
85°	67.4	45.3	39.4	38.0	36.9
87.5°	28.5	19.6	18.4	18.4	17.1
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)