

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: P888239

Luminaire Tested: **DPT5-6FO55-109S40-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: P888239
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: DPT5-6FO55-109S40-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

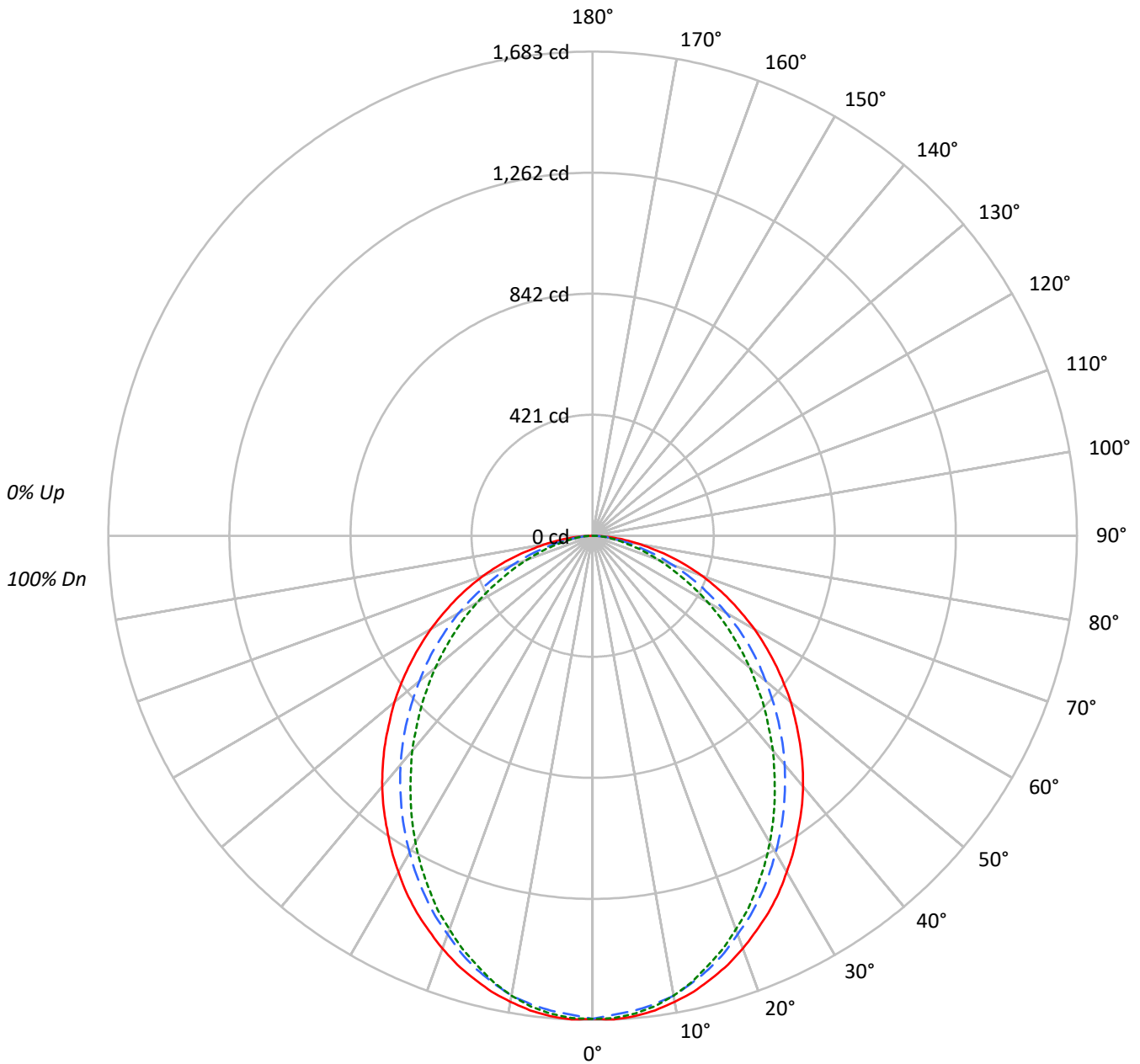
Lumens per Lamp: N/A
Luminaire Lumens: 3967.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P888239

CATALOG NUMBER: DPT5-6FO55-109S40-A-XX-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P888239

CATALOG NUMBER: DPT5-6FO55-109S40-A-XX-UDD

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°	10724	10724	10724
5°	10748	10626	10689
10°	10666	10526	10526
15°	10540	10311	10229
20°	10376	10015	9895
25°	10186	9722	9508
30°	9950	9379	9081
35°	9709	9027	8602
40°	9484	8659	8131
45°	9208	8246	7616
50°	8933	7799	7082
55°	8615	7373	6511
60°	8293	6850	5895
65°	7917	6250	5191
70°	7486	5492	4476
75°	6884	4631	3726
80°	6065	3641	3133
85°	5100	2982	2792



TEST NUMBER: P888239

CATALOG NUMBER: DPT5-6FO55-109S40-A-XX-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	4.0
10°-20°	441.6	11.1
20°-30°	640.3	16.1
30°-40°	729.6	18.4
40°-50°	711.1	17.9
50°-60°	598.4	15.1
60°-70°	419.4	10.6
70°-80°	215.0	5.4
80°-90°	53.6	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°	1240.0	31.3
0°-40°	1969.5	49.6
0°-60°	3279.0	82.7
0°-90°	3967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1677	1672	1658	1670	1667	159
15°	1594	1586	1560	1558	1547	449
25°	1446	1426	1380	1363	1349	665
35°	1245	1215	1158	1121	1103	780
45°	1020	983	913	862	843	786
55°	774	733	662	605	585	692
65°	524	481	414	362	344	519
75°	279	241	188	160	151	295
85°	70	47	41	39	38	80
90°	0	0	0	0	0	



TEST NUMBER: P888239

CATALOG NUMBER: DPT5-6FO55-109S40-A-XX-UDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.2	1679.2	1679.2	1679.2	1679.2
2.5°	1682.9	1679.2	1666.4	1679.2	1677.7
5°	1676.6	1671.6	1657.5	1670.0	1667.4
7.5°	1663.9	1658.7	1642.2	1652.3	1650.0
10°	1644.8	1641.0	1623.2	1627.2	1623.2
12.5°	1623.2	1618.0	1592.6	1595.2	1589.1
15°	1594.2	1586.5	1559.6	1558.5	1547.2
17.5°	1563.6	1552.4	1520.4	1514.2	1505.3
20°	1526.7	1514.2	1473.6	1467.2	1455.9
22.5°	1486.3	1473.6	1430.7	1416.6	1407.4
25°	1445.6	1426.5	1379.7	1363.2	1349.3
27.5°	1400.2	1377.1	1327.7	1306.3	1292.4
30°	1349.3	1325.3	1271.9	1243.0	1231.5
32.5°	1299.7	1270.8	1216.2	1183.3	1168.2
35°	1245.4	1215.0	1157.9	1121.2	1103.3
37.5°	1193.4	1156.4	1098.1	1055.3	1037.2
40°	1137.6	1099.5	1038.6	990.4	975.3
42.5°	1079.1	1039.8	976.3	930.8	906.6
45°	1019.5	983.1	913.0	862.4	843.3
47.5°	957.2	919.6	849.5	797.7	776.1
50°	899.1	857.2	785.0	731.8	712.8
52.5°	835.6	792.8	725.2	666.9	647.9
55°	773.7	733.0	662.2	605.0	584.8
57.5°	710.2	666.9	598.7	542.7	525.1
60°	649.3	605.0	536.3	480.6	461.5
62.5°	584.8	542.7	473.1	422.3	403.2
65°	523.9	480.6	413.6	362.5	343.5
67.5°	462.7	419.9	355.0	307.0	291.9
70°	400.9	357.6	294.1	254.8	239.7
72.5°	339.9	298.1	239.7	204.2	195.5
75°	279.0	240.9	187.7	160.0	151.0
77.5°	216.7	186.3	141.9	120.7	112.9
80°	164.9	134.6	99.0	87.5	85.2
82.5°	114.1	87.5	66.1	61.9	60.9
85°	69.6	46.8	40.7	39.3	38.1
87.5°	29.4	20.2	19.1	19.1	17.6
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)