

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: P888241

Luminaire Tested: **DPT5-6FO55-109V60-A-XX-UDD_3000K**

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: P888241
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: DPT5-6FO55-109V60-A-XX-UDD_3000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

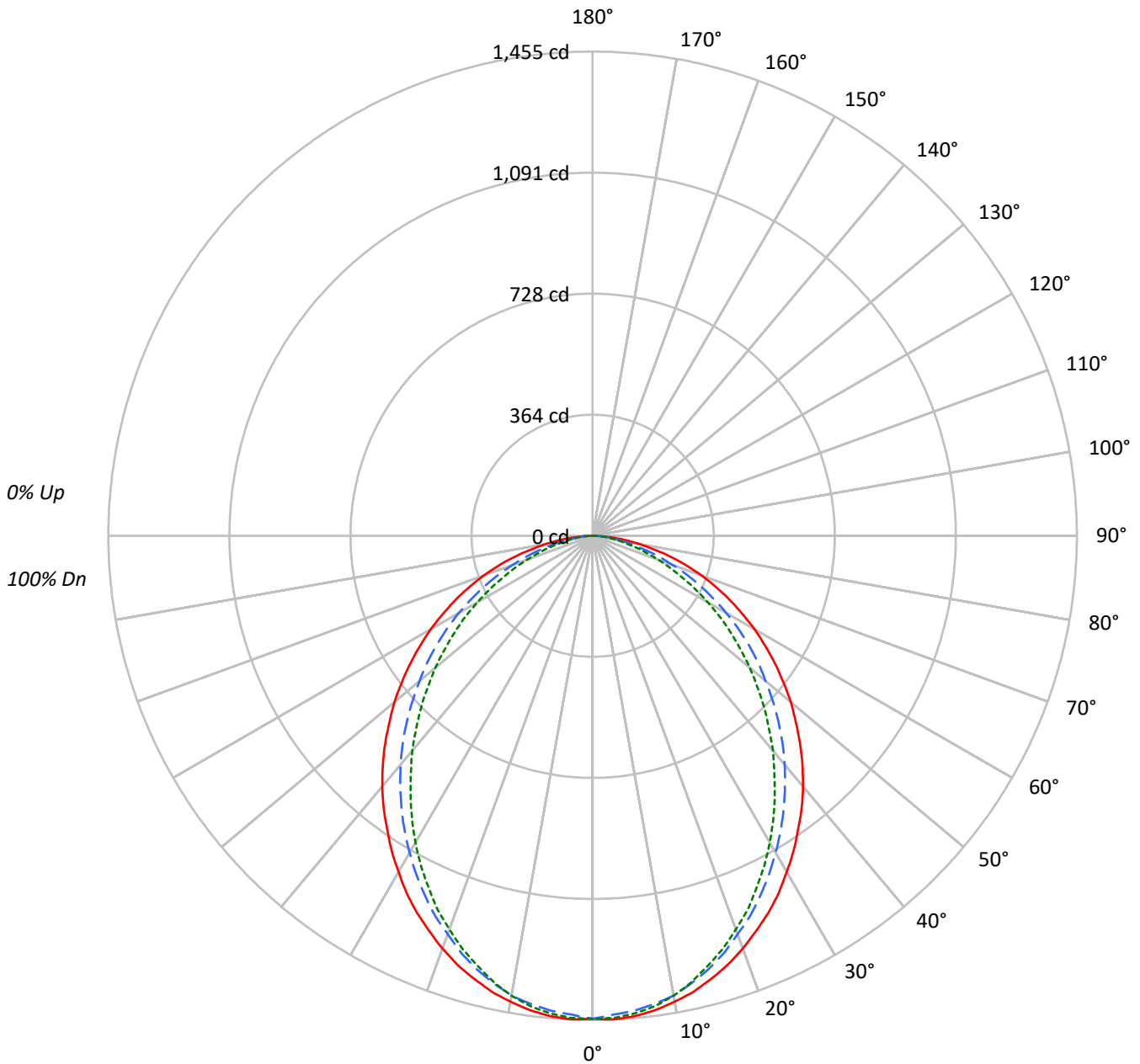
Lumens per Lamp: N/A
Luminaire Lumens: 3429.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

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: P888241

CATALOG NUMBER: DPT5-6FO55-109V60-A-XX-UDD_3000K

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°	9269	9269	9269
5°	9290	9185	9240
10°	9219	9098	9098
15°	9111	8913	8842
20°	8969	8656	8553
25°	8805	8404	8218
30°	8601	8107	7850
35°	8393	7802	7435
40°	8198	7484	7028
45°	7960	7128	6584
50°	7722	6741	6121
55°	7447	6373	5628
60°	7168	5921	5095
65°	6842	5402	4487
70°	6470	4747	3869
75°	5952	4005	3220
80°	5241	3148	2707
85°	4411	2579	2411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	4.0
10°-20°	381.7	11.1
20°-30°	553.5	16.1
30°-40°	630.6	18.4
40°-50°	614.6	17.9
50°-60°	517.3	15.1
60°-70°	362.5	10.6
70°-80°	185.8	5.4
80°-90°	46.4	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°	1071.8	31.3
0°-40°	1702.4	49.6
0°-60°	2834.3	82.7
0°-90°	3429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1449	1445	1433	1444	1441	137
15°	1378	1371	1348	1347	1337	389
25°	1250	1233	1193	1178	1166	575
35°	1076	1050	1001	969	954	674
45°	881	850	789	745	729	680
55°	669	634	572	523	506	598
65°	453	415	358	313	297	448
75°	241	208	162	138	130	255
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°	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1454.7	1451.4	1440.4	1451.4	1450.2
5°	1449.2	1444.9	1432.7	1443.5	1441.3
7.5°	1438.2	1433.7	1419.5	1428.2	1426.2
10°	1421.7	1418.5	1403.0	1406.5	1403.0
12.5°	1403.0	1398.6	1376.6	1378.8	1373.5
15°	1378.0	1371.3	1348.1	1347.1	1337.4
17.5°	1351.6	1341.8	1314.2	1308.9	1301.2
20°	1319.7	1308.9	1273.7	1268.2	1258.5
22.5°	1284.7	1273.7	1236.7	1224.5	1216.6
25°	1249.5	1233.0	1192.6	1178.3	1166.3
27.5°	1210.3	1190.3	1147.6	1129.1	1117.1
30°	1166.3	1145.6	1099.4	1074.4	1064.5
32.5°	1123.4	1098.4	1051.3	1022.8	1009.8
35°	1076.5	1050.2	1000.8	969.1	953.7
37.5°	1031.5	999.6	949.2	912.2	896.5
40°	983.3	950.4	897.7	856.1	843.0
42.5°	932.7	898.8	843.9	804.6	783.7
45°	881.3	849.7	789.2	745.4	729.0
47.5°	827.4	794.8	734.3	689.5	670.8
50°	777.2	741.0	678.5	632.6	616.1
52.5°	722.3	685.2	626.9	576.5	560.0
55°	668.8	633.6	572.4	523.0	505.5
57.5°	613.9	576.5	517.5	469.1	453.9
60°	561.2	523.0	463.6	415.4	398.9
62.5°	505.5	469.1	408.9	365.0	348.5
65°	452.8	415.4	357.5	313.3	296.9
67.5°	400.0	363.0	306.8	265.4	252.3
70°	346.5	309.1	254.2	220.2	207.2
72.5°	293.8	257.6	207.2	176.5	169.0
75°	241.2	208.2	162.3	138.3	130.5
77.5°	187.3	161.0	122.6	104.3	97.6
80°	142.5	116.3	85.6	75.6	73.6
82.5°	98.6	75.6	57.1	53.5	52.7
85°	60.2	40.5	35.2	34.0	32.9
87.5°	25.4	17.5	16.5	16.5	15.3
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)