

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: P888240

Luminaire Tested: **DPT5-6FO55-109V60-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: P888240
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_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

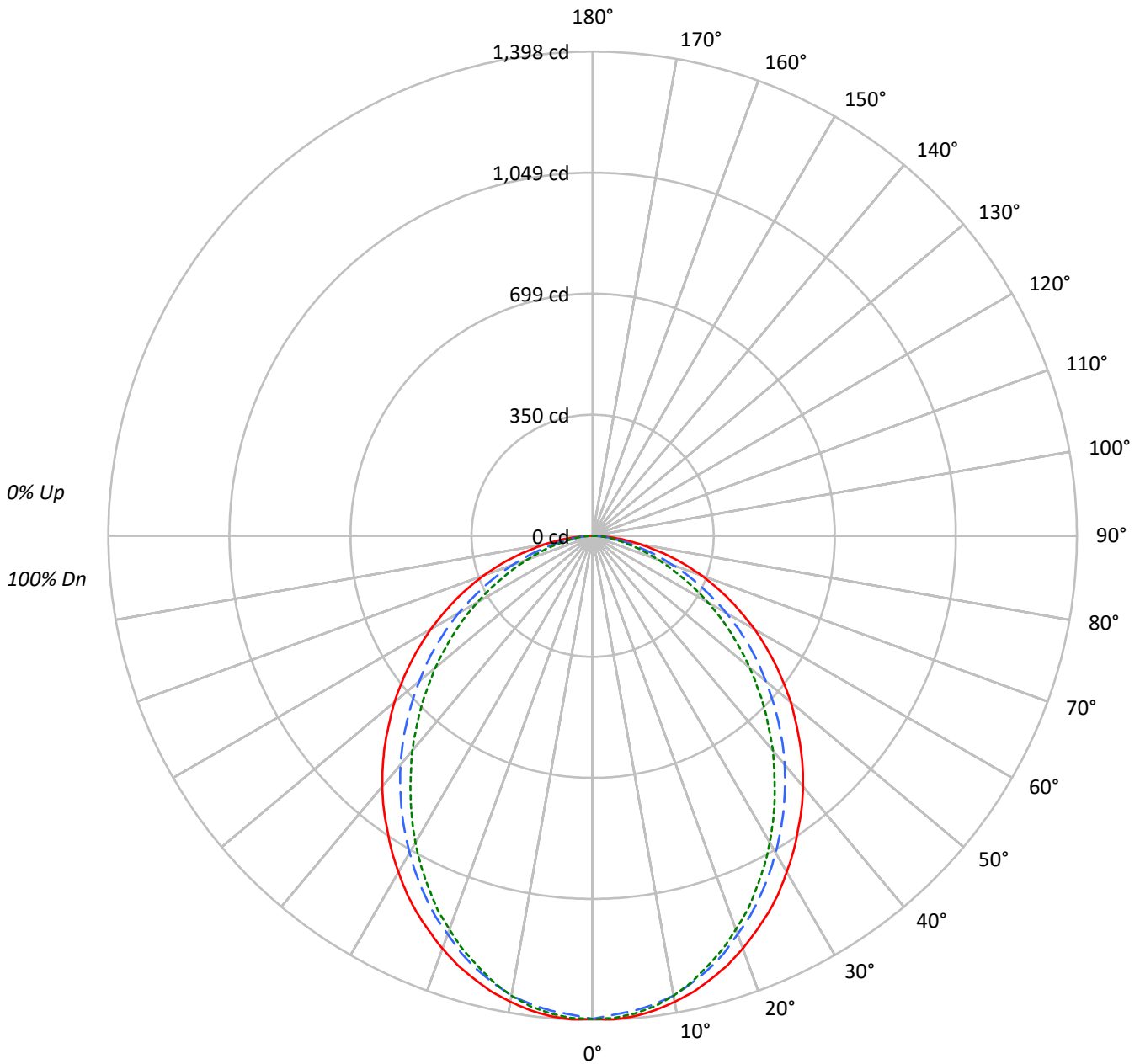
Lumens per Lamp: N/A
Luminaire Lumens: 3295.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

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

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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°	8907	8907	8907
5°	8928	8826	8878
10°	8860	8743	8743
15°	8755	8565	8497
20°	8618	8318	8219
25°	8461	8075	7898
30°	8265	7791	7543
35°	8064	7498	7144
40°	7877	7192	6754
45°	7648	6849	6327
50°	7420	6478	5882
55°	7155	6124	5408
60°	6888	5690	4897
65°	6575	5191	4311
70°	6216	4560	3718
75°	5717	3847	3094
80°	5038	3027	2600
85°	4235	2477	2323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	4.0
10°-20°	366.8	11.1
20°-30°	531.9	16.1
30°-40°	606.0	18.4
40°-50°	590.6	17.9
50°-60°	497.1	15.1
60°-70°	348.3	10.6
70°-80°	178.6	5.4
80°-90°	44.5	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°	1029.9	31.3
0°-40°	1635.9	49.6
0°-60°	2723.6	82.7
0°-90°	3295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1393	1388	1377	1387	1385	132
15°	1324	1318	1295	1294	1285	373
25°	1201	1185	1146	1132	1121	553
35°	1034	1009	962	931	916	648
45°	847	816	758	716	700	653
55°	643	609	550	502	486	575
65°	435	399	344	301	285	431
75°	232	200	156	133	125	245
85°	58	39	34	33	32	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.7	1394.7	1394.7	1394.7	1394.7
2.5°	1397.8	1394.7	1384.2	1394.7	1393.5
5°	1392.6	1388.5	1376.7	1387.1	1384.9
7.5°	1382.0	1377.7	1364.0	1372.4	1370.5
10°	1366.2	1363.1	1348.2	1351.5	1348.2
12.5°	1348.2	1343.9	1322.8	1325.0	1319.9
15°	1324.2	1317.7	1295.4	1294.5	1285.1
17.5°	1298.8	1289.4	1262.8	1257.7	1250.3
20°	1268.1	1257.7	1223.9	1218.7	1209.3
22.5°	1234.5	1223.9	1188.4	1176.6	1169.0
25°	1200.7	1184.9	1146.0	1132.3	1120.8
27.5°	1163.0	1143.8	1102.8	1085.0	1073.5
30°	1120.8	1100.8	1056.5	1032.5	1022.9
32.5°	1079.5	1055.5	1010.2	982.8	970.3
35°	1034.4	1009.2	961.7	931.2	916.4
37.5°	991.2	960.5	912.1	876.5	861.5
40°	944.9	913.3	862.7	822.6	810.1
42.5°	896.3	863.6	810.9	773.2	753.0
45°	846.8	816.5	758.3	716.3	700.5
47.5°	795.0	763.8	705.6	662.6	644.6
50°	746.8	712.0	652.0	607.9	592.0
52.5°	694.0	658.5	602.4	553.9	538.1
55°	642.6	608.8	550.0	502.5	485.7
57.5°	589.9	553.9	497.3	450.8	436.1
60°	539.3	502.5	445.5	399.2	383.4
62.5°	485.7	450.8	392.9	350.7	334.9
65°	435.1	399.2	343.5	301.1	285.3
67.5°	384.3	348.8	294.8	255.0	242.5
70°	332.9	297.0	244.2	211.6	199.1
72.5°	282.3	247.6	199.1	169.6	162.4
75°	231.7	200.1	155.9	132.9	125.4
77.5°	180.0	154.8	117.8	100.2	93.8
80°	137.0	111.8	82.3	72.7	70.7
82.5°	94.8	72.7	54.9	51.4	50.6
85°	57.8	38.9	33.8	32.6	31.7
87.5°	24.4	16.8	15.8	15.8	14.7
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)