

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: P888517

Luminaire Tested: **DPT5-6FO55-109V60-F-XX-UDD_3500K**

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: P888517
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-F-XX-UDD_3500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

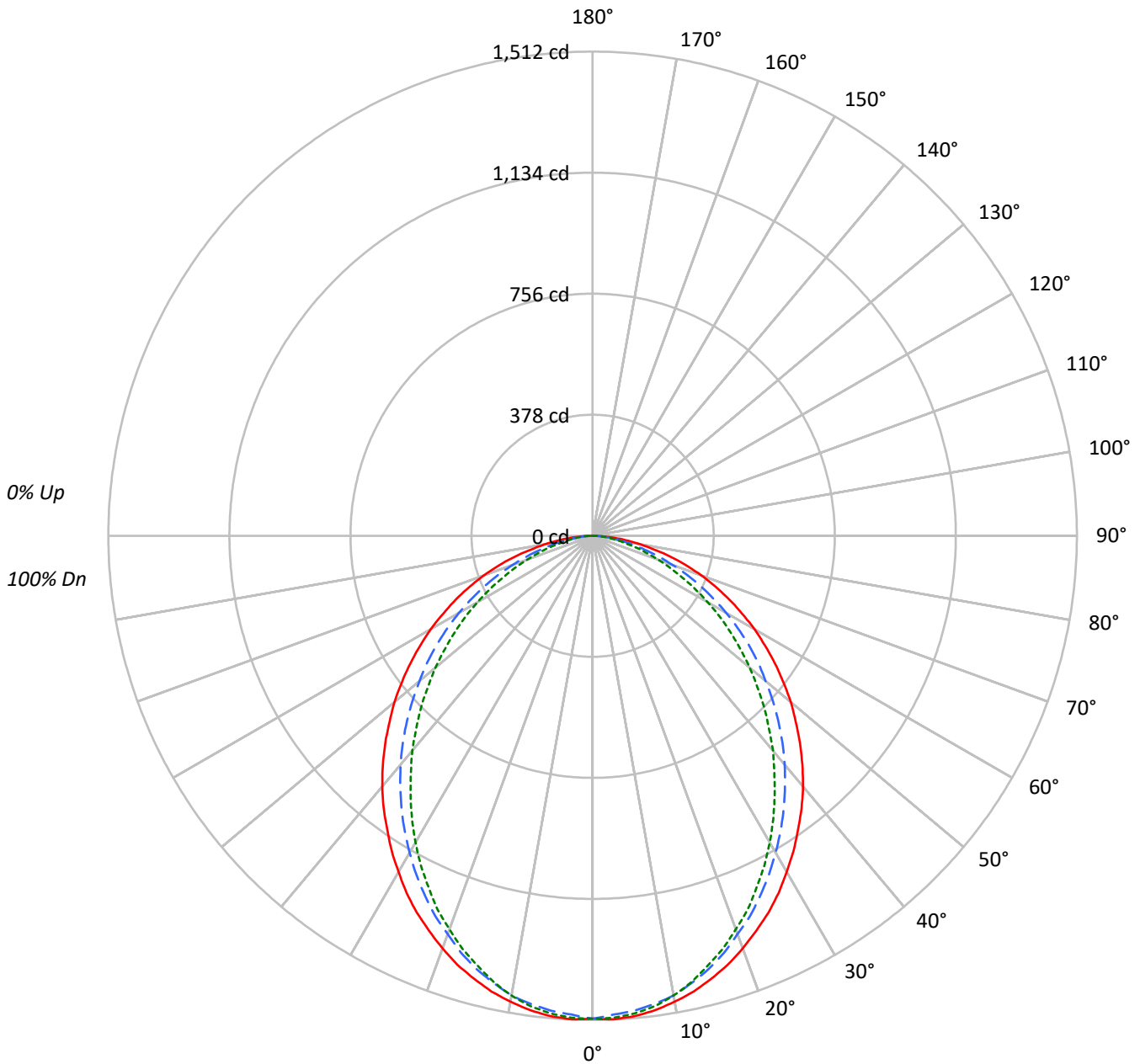
Lumens per Lamp: N/A
Luminaire Lumens: 3563.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

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°	9631	9631	9631
5°	9653	9544	9601
10°	9580	9454	9454
15°	9467	9262	9187
20°	9319	8995	8887
25°	9148	8732	8540
30°	8937	8424	8157
35°	8720	8107	7725
40°	8518	7777	7303
45°	8270	7406	6841
50°	8023	7005	6361
55°	7737	6623	5849
60°	7448	6153	5294
65°	7110	5612	4662
70°	6722	4931	4020
75°	6184	4160	3346
80°	5447	3273	2813
85°	4580	2682	2506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	4.0
10°-20°	396.6	11.1
20°-30°	575.1	16.1
30°-40°	655.3	18.4
40°-50°	638.6	17.9
50°-60°	537.5	15.1
60°-70°	376.6	10.6
70°-80°	193.1	5.4
80°-90°	48.2	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°	1113.7	31.3
0°-40°	1769.0	49.6
0°-60°	2945.1	82.7
0°-90°	3563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1506	1501	1489	1500	1498	143
15°	1432	1425	1401	1400	1390	404
25°	1298	1281	1239	1224	1212	598
35°	1118	1091	1040	1007	991	700
45°	916	883	820	775	758	706
55°	695	658	595	543	525	621
65°	470	432	371	326	308	466
75°	251	216	169	144	136	265
85°	62	42	37	35	34	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.1	1508.1	1508.1	1508.1	1508.1
2.5°	1511.5	1508.1	1496.7	1508.1	1506.9
5°	1505.8	1501.4	1488.7	1499.9	1497.6
7.5°	1494.4	1489.8	1475.0	1484.1	1481.9
10°	1477.3	1473.9	1457.9	1461.5	1457.9
12.5°	1457.9	1453.2	1430.4	1432.7	1427.2
15°	1431.9	1424.9	1400.8	1399.8	1389.6
17.5°	1404.4	1394.3	1365.5	1360.0	1352.0
20°	1371.2	1360.0	1323.5	1317.8	1307.6
22.5°	1334.9	1323.5	1285.0	1272.4	1264.1
25°	1298.3	1281.2	1239.2	1224.4	1211.9
27.5°	1257.6	1236.9	1192.5	1173.3	1160.8
30°	1211.9	1190.4	1142.4	1116.4	1106.1
32.5°	1167.3	1141.4	1092.3	1062.8	1049.2
35°	1118.5	1091.3	1039.9	1007.0	990.9
37.5°	1071.8	1038.7	986.3	947.8	931.6
40°	1021.8	987.5	932.8	889.5	876.0
42.5°	969.2	933.9	876.8	836.1	814.3
45°	915.7	883.0	820.0	774.6	757.5
47.5°	859.7	825.9	762.9	716.5	697.0
50°	807.5	769.9	705.1	657.3	640.2
52.5°	750.5	712.0	651.4	599.0	581.9
55°	694.9	658.4	594.8	543.4	525.3
57.5°	637.9	599.0	537.7	487.4	471.6
60°	583.1	543.4	481.7	431.7	414.5
62.5°	525.3	487.4	424.9	379.3	362.1
65°	470.5	431.7	371.4	325.6	308.5
67.5°	415.6	377.1	318.8	275.7	262.2
70°	360.0	321.2	264.1	228.8	215.3
72.5°	305.3	267.7	215.3	183.4	175.6
75°	250.6	216.4	168.6	143.7	135.6
77.5°	194.6	167.3	127.4	108.4	101.4
80°	148.1	120.9	89.0	78.6	76.5
82.5°	102.5	78.6	59.4	55.6	54.7
85°	62.5	42.0	36.6	35.3	34.2
87.5°	26.4	18.2	17.1	17.1	15.8
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)