

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: P888558

Luminaire Tested: **DPT5-6FO55-85S40-F-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: P888558
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: DPT5-6FO55-85S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

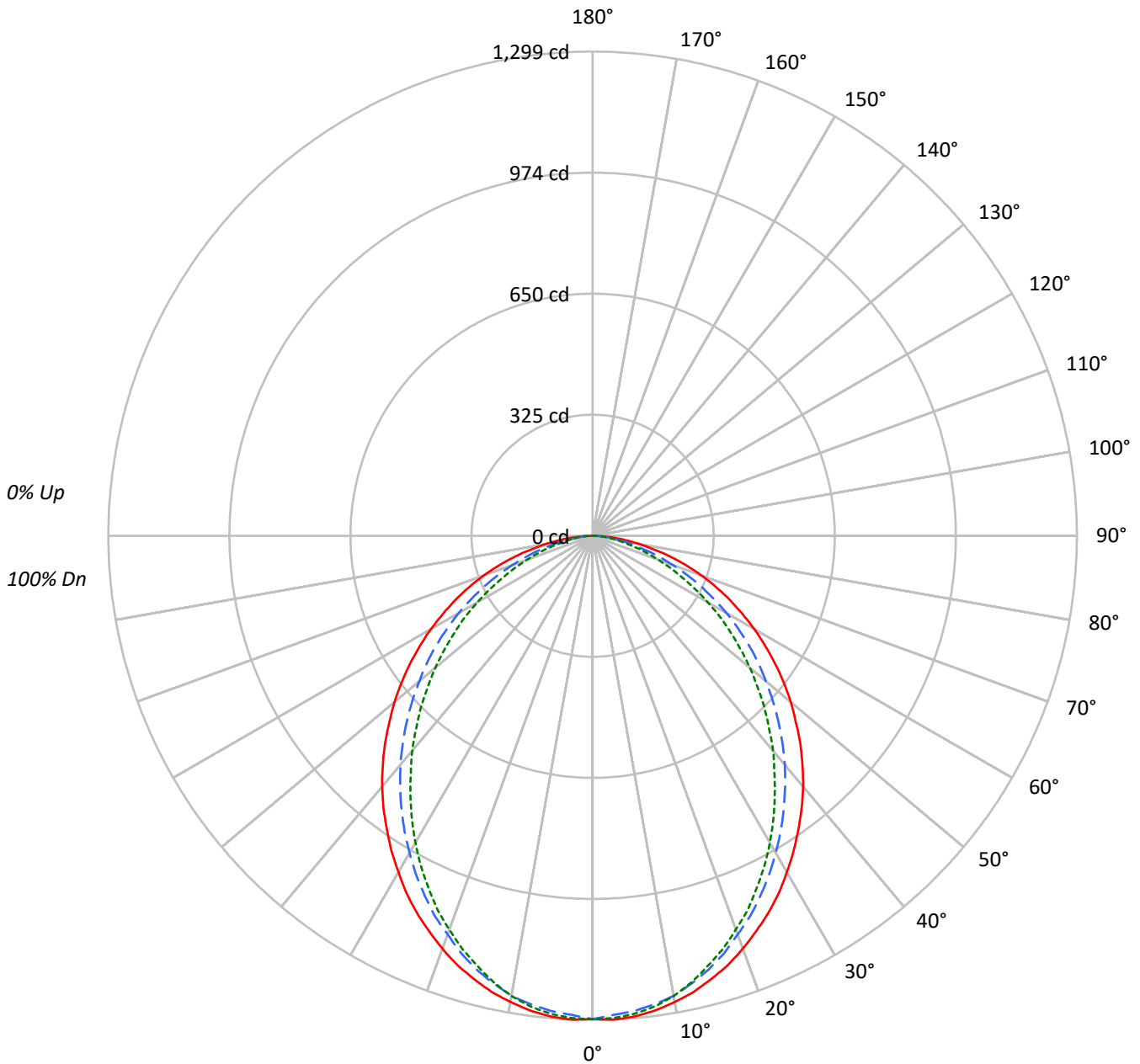
Lumens per Lamp: N/A
Luminaire Lumens: 3063.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30.1
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°	8280	8280	8280
5°	8299	8204	8253
10°	8236	8127	8127
15°	8138	7962	7898
20°	8011	7733	7640
25°	7865	7507	7342
30°	7683	7242	7012
35°	7497	6970	6642
40°	7323	6685	6278
45°	7110	6366	5881
50°	6897	6022	5468
55°	6652	5693	5027
60°	6403	5289	4552
65°	6113	4825	4008
70°	5779	4239	3456
75°	5315	3575	2877
80°	4682	2813	2420
85°	3942	2301	2154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	4.0
10°-20°	341.0	11.1
20°-30°	494.4	16.1
30°-40°	563.3	18.4
40°-50°	549.0	17.9
50°-60°	462.1	15.1
60°-70°	323.8	10.6
70°-80°	166.0	5.4
80°-90°	41.4	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°	957.4	31.3
0°-40°	1520.7	49.6
0°-60°	2531.8	82.7
0°-90°	3063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1294	1291	1280	1289	1287	123
15°	1231	1225	1204	1203	1195	347
25°	1116	1101	1065	1053	1042	514
35°	962	938	894	866	852	602
45°	787	759	705	666	651	607
55°	597	566	511	467	452	534
65°	404	371	319	280	265	400
75°	215	186	145	124	117	228
85°	54	36	31	30	29	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1299.4	1296.5	1286.7	1296.5	1295.4
5°	1294.5	1290.7	1279.8	1289.4	1287.4
7.5°	1284.7	1280.7	1268.0	1275.8	1274.0
10°	1270.0	1267.1	1253.3	1256.4	1253.3
12.5°	1253.3	1249.3	1229.7	1231.7	1226.9
15°	1230.9	1224.9	1204.2	1203.3	1194.6
17.5°	1207.3	1198.6	1173.9	1169.2	1162.3
20°	1178.8	1169.2	1137.8	1132.9	1124.1
22.5°	1147.6	1137.8	1104.7	1093.8	1086.7
25°	1116.1	1101.4	1065.3	1052.6	1041.9
27.5°	1081.1	1063.3	1025.1	1008.6	997.9
30°	1041.9	1023.3	982.1	959.8	950.9
32.5°	1003.5	981.2	939.0	913.6	902.0
35°	961.6	938.1	894.0	865.7	851.9
37.5°	921.4	892.9	847.9	814.8	800.8
40°	878.4	849.0	801.9	764.7	753.1
42.5°	833.2	802.8	753.8	718.7	700.0
45°	787.2	759.0	704.9	665.9	651.2
47.5°	739.1	710.0	655.9	615.9	599.2
50°	694.2	661.9	606.1	565.1	550.4
52.5°	645.2	612.1	560.0	514.9	500.2
55°	597.4	566.0	511.3	467.2	451.5
57.5°	548.4	514.9	462.3	419.0	405.4
60°	501.3	467.2	414.1	371.1	356.4
62.5°	451.5	419.0	365.3	326.0	311.3
65°	404.5	371.1	319.3	279.9	265.2
67.5°	357.3	324.2	274.1	237.0	225.4
70°	309.5	276.1	227.0	196.7	185.1
72.5°	262.5	230.1	185.1	157.7	150.9
75°	215.4	186.0	144.9	123.5	116.6
77.5°	167.3	143.9	109.5	93.2	87.2
80°	127.3	103.9	76.5	67.6	65.8
82.5°	88.1	67.6	51.0	47.8	47.0
85°	53.8	36.1	31.4	30.3	29.4
87.5°	22.7	15.6	14.7	14.7	13.6
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)