

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: P888555

Luminaire Tested: **DPT5-6FO55-85S27-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: P888555
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: DPT5-6FO55-85S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

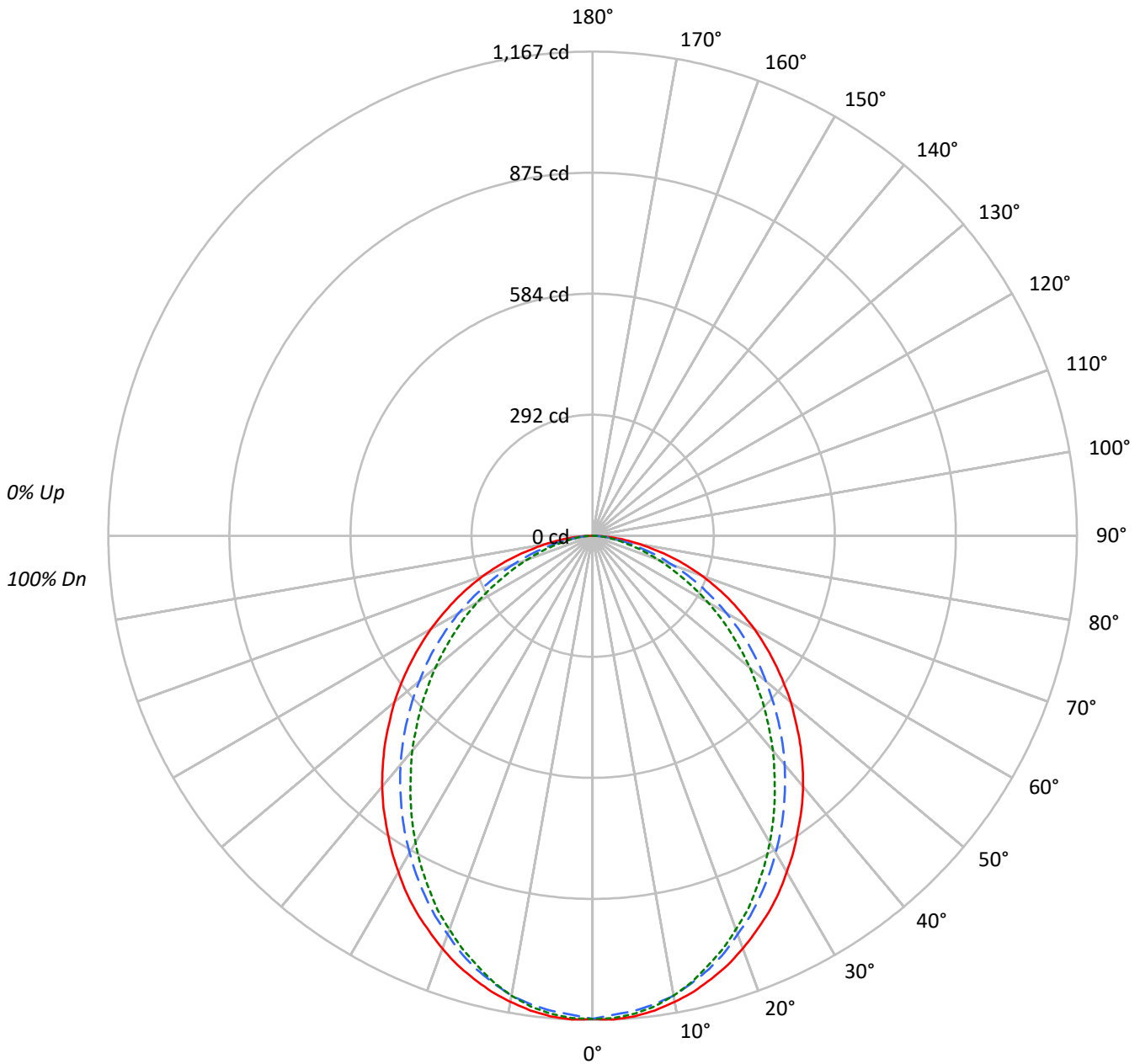
Lumens per Lamp: N/A
Luminaire Lumens: 2751.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

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°	7436	7436	7436
5°	7453	7368	7413
10°	7397	7299	7299
15°	7310	7151	7094
20°	7195	6945	6861
25°	7064	6742	6593
30°	6900	6505	6298
35°	6733	6260	5965
40°	6577	6004	5638
45°	6385	5718	5282
50°	6195	5409	4911
55°	5973	5113	4515
60°	5750	4750	4089
65°	5490	4334	3600
70°	5191	3807	3103
75°	4775	3213	2583
80°	4207	2527	2174
85°	3539	2066	1934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	4.0
10°-20°	306.2	11.1
20°-30°	444.1	16.1
30°-40°	505.9	18.4
40°-50°	493.1	17.9
50°-60°	415.0	15.1
60°-70°	290.8	10.6
70°-80°	149.1	5.4
80°-90°	37.2	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°	859.9	31.3
0°-40°	1365.8	49.6
0°-60°	2273.9	82.7
0°-90°	2751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1163	1159	1149	1158	1156	110
15°	1106	1100	1082	1081	1073	312
25°	1002	989	957	945	936	461
35°	864	843	803	778	765	541
45°	707	682	633	598	585	545
55°	536	508	459	420	406	480
65°	363	333	287	251	238	360
75°	194	167	130	111	105	204
85°	48	32	28	27	26	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.4	1164.4	1164.4	1164.4	1164.4
2.5°	1167.1	1164.4	1155.6	1164.4	1163.5
5°	1162.6	1159.2	1149.4	1158.1	1156.3
7.5°	1153.8	1150.3	1138.8	1145.8	1144.2
10°	1140.6	1138.0	1125.6	1128.4	1125.6
12.5°	1125.6	1122.0	1104.4	1106.2	1102.0
15°	1105.6	1100.2	1081.6	1080.8	1072.9
17.5°	1084.3	1076.5	1054.3	1050.1	1043.9
20°	1058.7	1050.1	1021.9	1017.5	1009.6
22.5°	1030.7	1021.9	992.2	982.4	976.0
25°	1002.5	989.2	956.8	945.4	935.7
27.5°	971.0	955.0	920.7	905.9	896.3
30°	935.7	919.1	882.1	862.0	854.0
32.5°	901.3	881.2	843.4	820.6	810.1
35°	863.6	842.6	802.9	777.5	765.1
37.5°	827.6	802.0	761.5	731.8	719.3
40°	788.9	762.5	720.2	686.8	676.3
42.5°	748.3	721.0	677.0	645.5	628.7
45°	707.0	681.7	633.1	598.0	584.8
47.5°	663.8	637.7	589.1	553.2	538.2
50°	623.5	594.5	544.4	507.5	494.3
52.5°	579.4	549.8	502.9	462.5	449.3
55°	536.5	508.3	459.2	419.6	405.5
57.5°	492.5	462.5	415.2	376.3	364.1
60°	450.2	419.6	371.9	333.3	320.1
62.5°	405.5	376.3	328.1	292.8	279.6
65°	363.3	333.3	286.8	251.4	238.2
67.5°	320.9	291.2	246.2	212.9	202.4
70°	278.0	248.0	203.9	176.7	166.2
72.5°	235.7	206.7	166.2	141.6	135.6
75°	193.5	167.0	130.2	110.9	104.7
77.5°	150.2	129.2	98.4	83.7	78.3
80°	114.4	93.3	68.7	60.7	59.1
82.5°	79.1	60.7	45.8	42.9	42.3
85°	48.3	32.5	28.2	27.2	26.4
87.5°	20.4	14.0	13.2	13.2	12.2
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)