

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: P888557

Luminaire Tested: **DPT5-6FO55-85S35-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: P888557
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: DPT5-6FO55-85S35-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

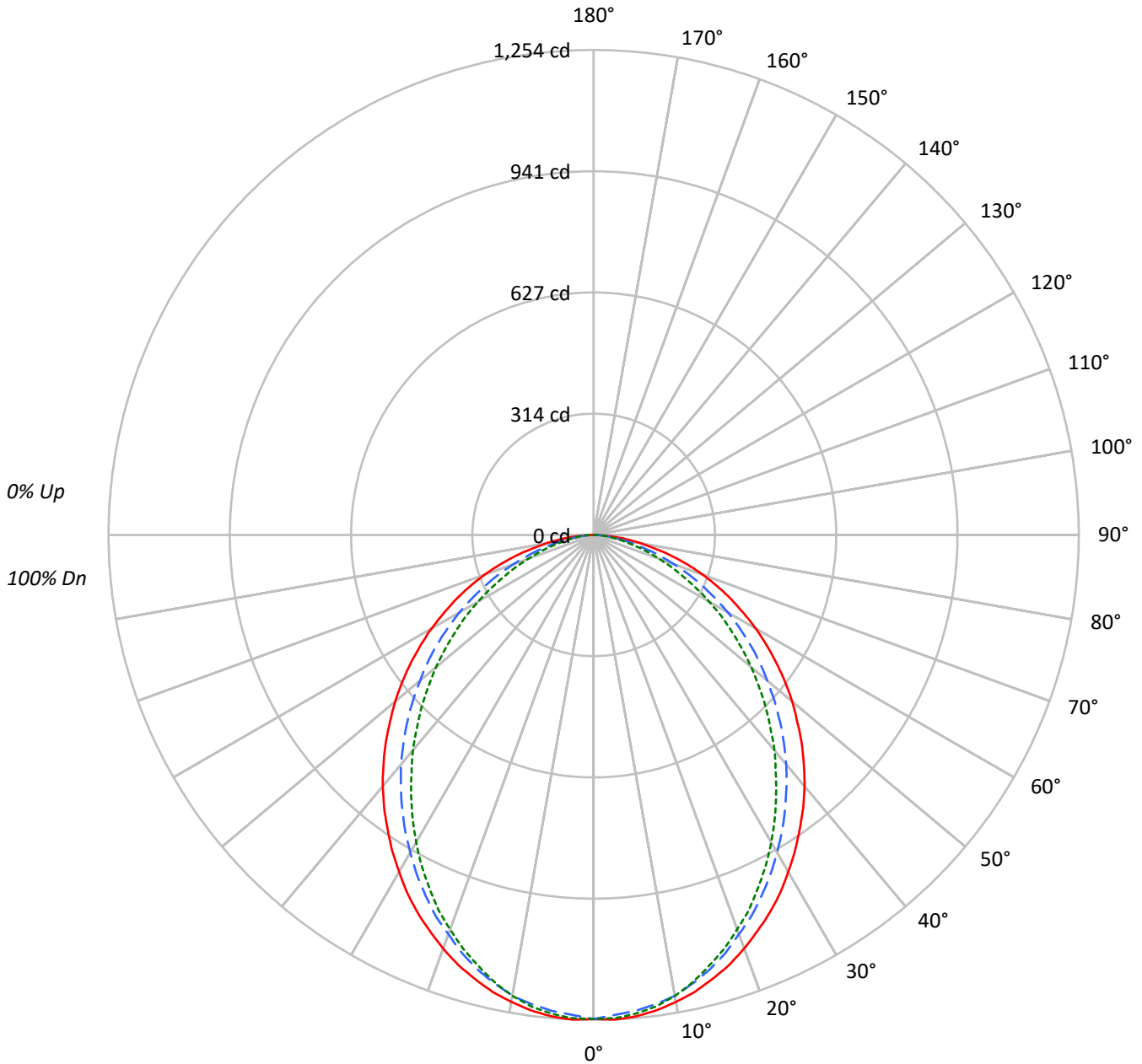
Lumens per Lamp: N/A
Luminaire Lumens: 2957.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')
CIE Type: Direct

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°	7993	7993	7993
5°	8011	7920	7968
10°	7950	7846	7846
15°	7857	7687	7625
20°	7734	7465	7375
25°	7593	7247	7087
30°	7417	6992	6769
35°	7237	6729	6412
40°	7070	6454	6061
45°	6864	6146	5677
50°	6659	5813	5279
55°	6421	5496	4853
60°	6182	5106	4394
65°	5901	4659	3868
70°	5579	4093	3337
75°	5132	3452	2778
80°	4520	2714	2335
85°	3803	2220	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	4.0
10°-20°	329.2	11.1
20°-30°	477.3	16.1
30°-40°	543.8	18.4
40°-50°	530.0	17.9
50°-60°	446.1	15.1
60°-70°	312.6	10.6
70°-80°	160.3	5.4
80°-90°	40.0	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°	924.3	31.3
0°-40°	1468.1	49.6
0°-60°	2444.2	82.7
0°-90°	2957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1250	1246	1236	1245	1243	119
15°	1188	1183	1163	1162	1153	335
25°	1078	1063	1028	1016	1006	496
35°	928	906	863	836	822	581
45°	760	733	680	643	629	586
55°	577	546	494	451	436	516
65°	390	358	308	270	256	387
75°	208	180	140	119	113	220
85°	52	35	30	29	28	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1254.4	1251.6	1242.2	1251.6	1250.6
5°	1249.7	1246.0	1235.5	1244.8	1242.9
7.5°	1240.2	1236.4	1224.1	1231.6	1229.9
10°	1226.0	1223.2	1209.9	1212.9	1209.9
12.5°	1209.9	1206.0	1187.1	1189.0	1184.5
15°	1188.3	1182.6	1162.6	1161.7	1153.3
17.5°	1165.5	1157.1	1133.3	1128.7	1122.1
20°	1138.0	1128.7	1098.4	1093.6	1085.2
22.5°	1107.9	1098.4	1066.5	1055.9	1049.1
25°	1077.5	1063.3	1028.4	1016.1	1005.8
27.5°	1043.7	1026.5	989.7	973.7	963.4
30°	1005.8	987.9	948.1	926.5	917.9
32.5°	968.8	947.2	906.6	882.0	870.8
35°	928.3	905.7	863.1	835.7	822.4
37.5°	889.5	862.0	818.5	786.6	773.1
40°	848.0	819.6	774.2	738.2	727.0
42.5°	804.3	775.0	727.7	693.9	675.8
45°	760.0	732.8	680.5	642.8	628.6
47.5°	713.5	685.4	633.2	594.6	578.5
50°	670.2	639.0	585.1	545.5	531.3
52.5°	622.8	590.9	540.6	497.1	482.9
55°	576.7	546.4	493.6	451.0	435.9
57.5°	529.4	497.1	446.3	404.5	391.4
60°	484.0	451.0	399.8	358.2	344.0
62.5°	435.9	404.5	352.6	314.8	300.5
65°	390.5	358.2	308.3	270.2	256.0
67.5°	344.9	313.0	264.6	228.8	217.6
70°	298.8	266.5	219.2	189.9	178.7
72.5°	253.4	222.2	178.7	152.2	145.7
75°	208.0	179.6	139.9	119.2	112.6
77.5°	161.5	138.9	105.7	90.0	84.2
80°	122.9	100.3	73.8	65.2	63.5
82.5°	85.0	65.2	49.3	46.1	45.4
85°	51.9	34.9	30.3	29.3	28.4
87.5°	21.9	15.1	14.2	14.2	13.2
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)