

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: P888500

Luminaire Tested: **DPT5-6FO44-85S27-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: P888500
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: DPT5-6FO44-85S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

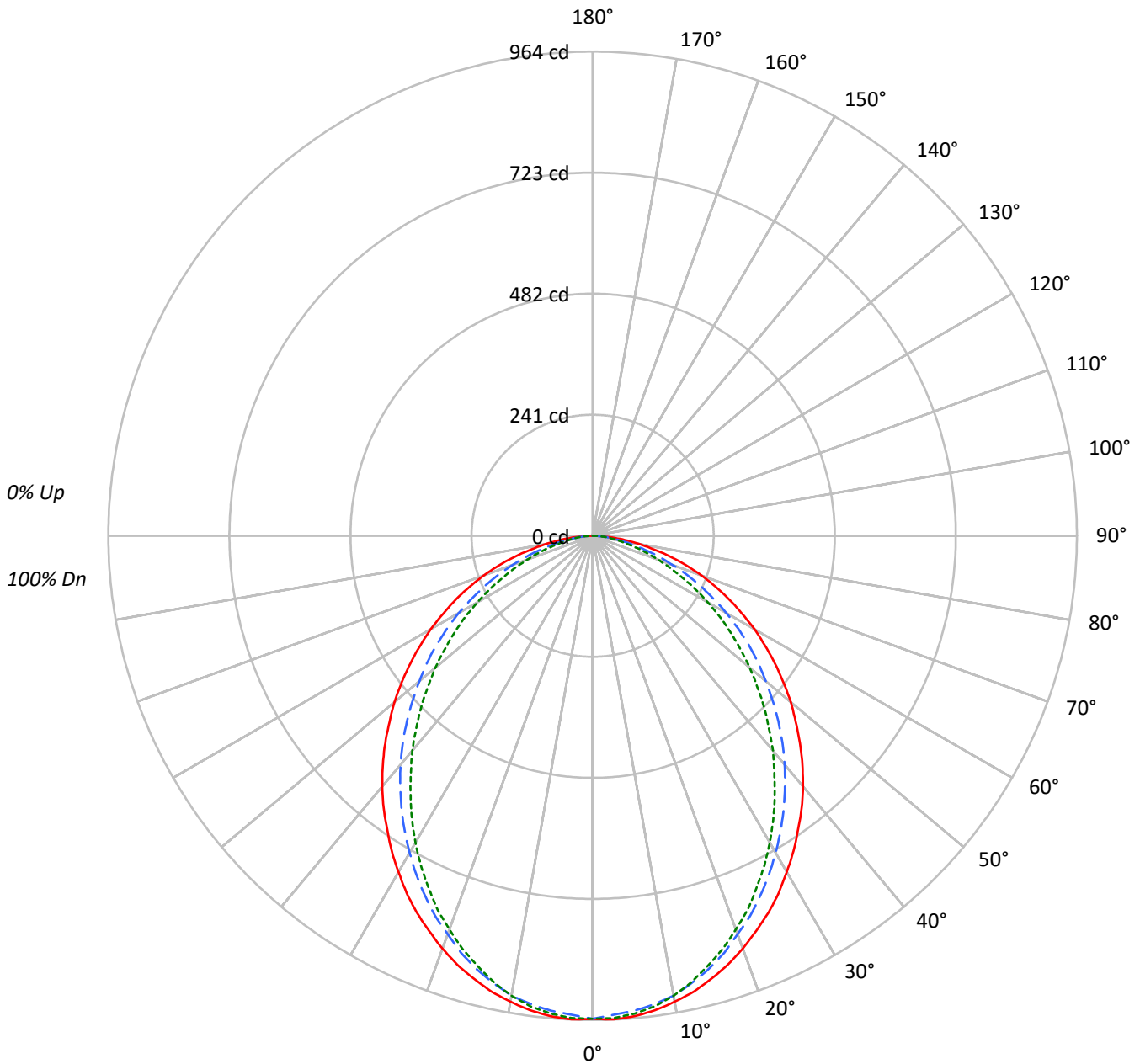
Lumens per Lamp: N/A
Luminaire Lumens: 2272.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 24.8
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°	7435	7435	7435
5°	7451	7367	7411
10°	7395	7297	7297
15°	7308	7149	7092
20°	7194	6943	6860
25°	7062	6740	6592
30°	6899	6503	6296
35°	6732	6258	5964
40°	6575	6003	5637
45°	6384	5717	5281
50°	6193	5407	4909
55°	5972	5112	4514
60°	5750	4750	4086
65°	5488	4334	3598
70°	5190	3806	3103
75°	4773	3211	2584
80°	4203	2524	2173
85°	3539	2067	1934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	4.0
10°-20°	252.9	11.1
20°-30°	366.7	16.1
30°-40°	417.8	18.4
40°-50°	407.2	17.9
50°-60°	342.7	15.1
60°-70°	240.2	10.6
70°-80°	123.1	5.4
80°-90°	30.7	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°	710.2	31.3
0°-40°	1128.0	49.6
0°-60°	1878.0	82.7
0°-90°	2272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	960	957	949	956	955	91
15°	913	909	893	893	886	257
25°	828	817	790	781	773	381
35°	713	696	663	642	632	447
45°	584	563	523	494	483	450
55°	443	420	379	346	335	396
65°	300	275	237	208	197	297
75°	160	138	108	92	86	169
85°	40	27	23	22	22	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.7	961.7	961.7	961.7	961.7
2.5°	963.8	961.7	954.4	961.7	960.9
5°	960.2	957.4	949.3	956.4	955.0
7.5°	952.9	950.0	940.5	946.3	945.0
10°	942.0	939.9	929.6	931.9	929.6
12.5°	929.6	926.7	912.1	913.6	910.1
15°	913.1	908.6	893.2	892.6	886.1
17.5°	895.5	889.1	870.7	867.2	862.1
20°	874.4	867.2	843.9	840.3	833.8
22.5°	851.2	843.9	819.4	811.3	806.1
25°	827.9	817.0	790.2	780.8	772.8
27.5°	801.9	788.7	760.4	748.1	740.2
30°	772.8	759.1	728.5	711.9	705.3
32.5°	744.4	727.8	696.5	677.7	669.1
35°	713.3	695.9	663.1	642.1	631.9
37.5°	683.5	662.3	628.9	604.4	594.0
40°	651.5	629.7	594.8	567.2	558.6
42.5°	618.0	595.5	559.1	533.1	519.2
45°	583.9	563.0	522.9	493.9	483.0
47.5°	548.2	526.7	486.5	456.9	444.5
50°	514.9	491.0	449.6	419.1	408.2
52.5°	478.6	454.0	415.4	382.0	371.0
55°	443.1	419.8	379.3	346.5	334.9
57.5°	406.7	382.0	342.9	310.8	300.7
60°	371.9	346.5	307.2	275.3	264.3
62.5°	334.9	310.8	270.9	241.8	230.9
65°	300.0	275.3	236.9	207.6	196.7
67.5°	265.0	240.5	203.3	175.8	167.2
70°	229.6	204.8	168.4	145.9	137.3
72.5°	194.7	170.7	137.3	116.9	112.0
75°	159.8	138.0	107.5	91.6	86.5
77.5°	124.1	106.7	81.2	69.1	64.7
80°	94.4	77.1	56.7	50.1	48.8
82.5°	65.3	50.1	37.9	35.4	34.9
85°	39.9	26.8	23.3	22.5	21.8
87.5°	16.8	11.6	10.9	10.9	10.1
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)