

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: P888445

Luminaire Tested: **DPT5-6FO36-85S27-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: P888445
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: DPT5-6FO36-85S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

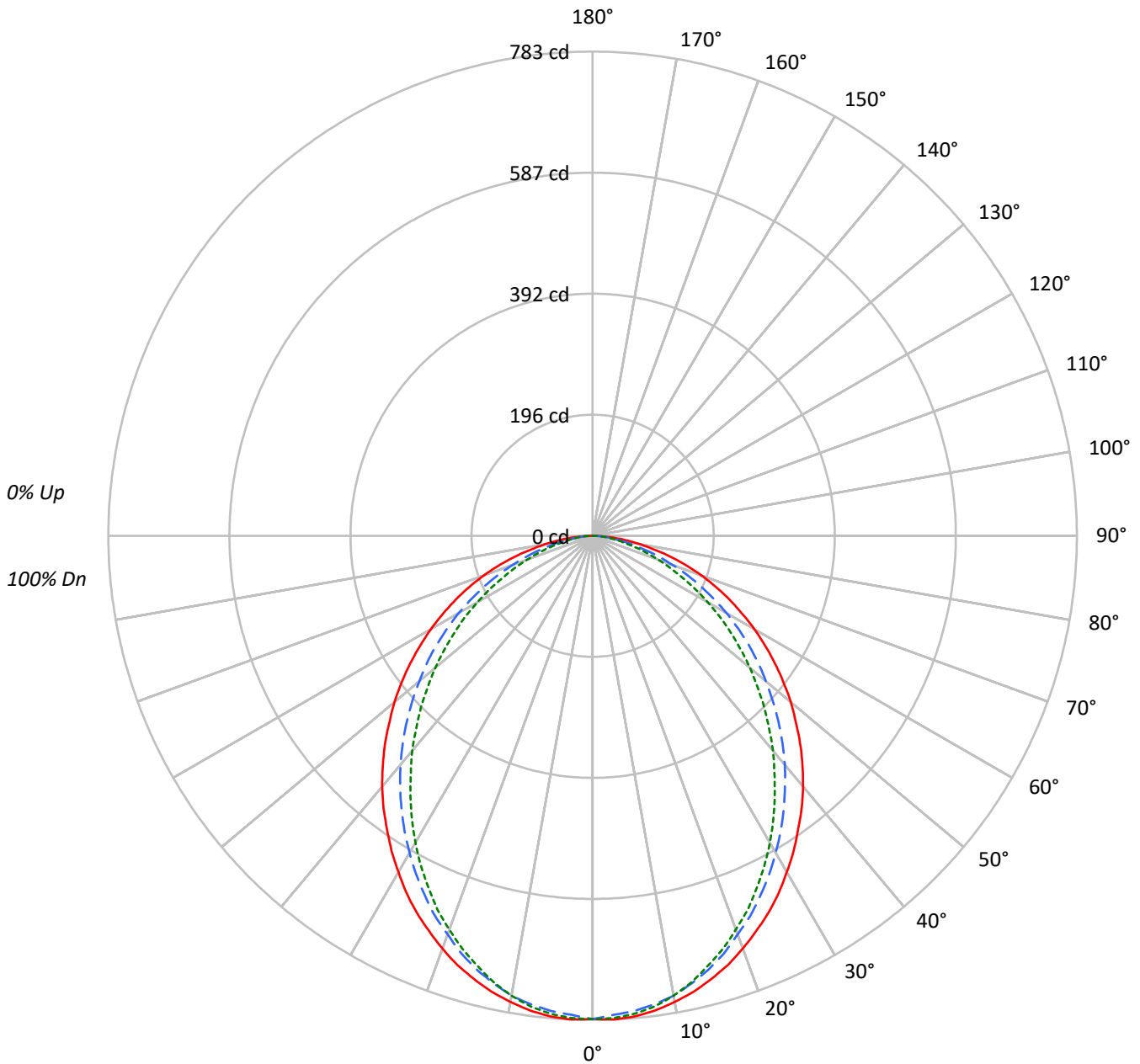
Lumens per Lamp: N/A
Luminaire Lumens: 1846.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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°	7432	7432	7432
5°	7448	7364	7407
10°	7392	7294	7294
15°	7305	7146	7089
20°	7190	6940	6857
25°	7059	6737	6589
30°	6895	6500	6294
35°	6728	6256	5961
40°	6573	6000	5634
45°	6381	5714	5278
50°	6191	5405	4908
55°	5969	5109	4512
60°	5746	4748	4086
65°	5486	4330	3596
70°	5186	3804	3100
75°	4770	3212	2583
80°	4201	2525	2169
85°	3536	2062	1931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	4.0
10°-20°	205.5	11.1
20°-30°	298.0	16.1
30°-40°	339.5	18.4
40°-50°	330.9	17.9
50°-60°	278.5	15.1
60°-70°	195.1	10.6
70°-80°	100.0	5.4
80°-90°	25.0	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°	577.0	31.3
0°-40°	916.5	49.6
0°-60°	1525.8	82.7
0°-90°	1846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	780	778	771	777	776	74
15°	742	738	726	725	720	209
25°	673	664	642	634	628	310
35°	580	565	539	522	513	363
45°	474	458	425	401	392	366
55°	360	341	308	282	272	322
65°	244	224	192	169	160	241
75°	130	112	87	74	70	137
85°	32	22	19	18	18	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	781.4	781.4	781.4	781.4	781.4
2.5°	783.1	781.4	775.5	781.4	780.7
5°	780.2	777.9	771.3	777.1	775.9
7.5°	774.3	771.9	764.2	768.9	767.8
10°	765.4	763.6	755.3	757.2	755.3
12.5°	755.3	752.9	741.1	742.3	739.4
15°	741.9	738.2	725.8	725.2	720.0
17.5°	727.6	722.4	707.5	704.6	700.5
20°	710.4	704.6	685.7	682.7	677.5
22.5°	691.6	685.7	665.8	659.2	654.9
25°	672.7	663.8	642.0	634.4	627.9
27.5°	651.5	640.8	617.8	607.9	601.4
30°	627.9	616.7	591.9	578.4	573.1
32.5°	604.8	591.3	565.9	550.6	543.6
35°	579.5	565.4	538.8	521.7	513.4
37.5°	555.3	538.1	511.0	491.1	482.6
40°	529.4	511.6	483.3	460.9	453.8
42.5°	502.1	483.8	454.3	433.2	421.9
45°	474.4	457.5	424.8	401.3	392.4
47.5°	445.4	427.9	395.3	371.2	361.1
50°	418.4	398.9	365.3	340.6	331.7
52.5°	388.8	368.9	337.5	310.3	301.5
55°	360.0	341.1	308.1	281.5	272.1
57.5°	330.5	310.3	278.6	252.5	244.3
60°	302.1	281.5	249.6	223.6	214.8
62.5°	272.1	252.5	220.1	196.5	187.6
65°	243.8	223.6	192.4	168.7	159.8
67.5°	215.3	195.4	165.2	142.9	135.8
70°	186.5	166.4	136.8	118.6	111.5
72.5°	158.2	138.7	111.5	95.0	91.0
75°	129.8	112.1	87.4	74.4	70.3
77.5°	100.8	86.7	66.0	56.2	52.5
80°	76.7	62.6	46.1	40.7	39.6
82.5°	53.1	40.7	30.8	28.8	28.4
85°	32.4	21.8	18.9	18.3	17.7
87.5°	13.7	9.4	8.9	8.9	8.2
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)