

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: P888446

Luminaire Tested: **DPT5-6FO36-85S30-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: P888446
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: DPT5-6FO36-85S30-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

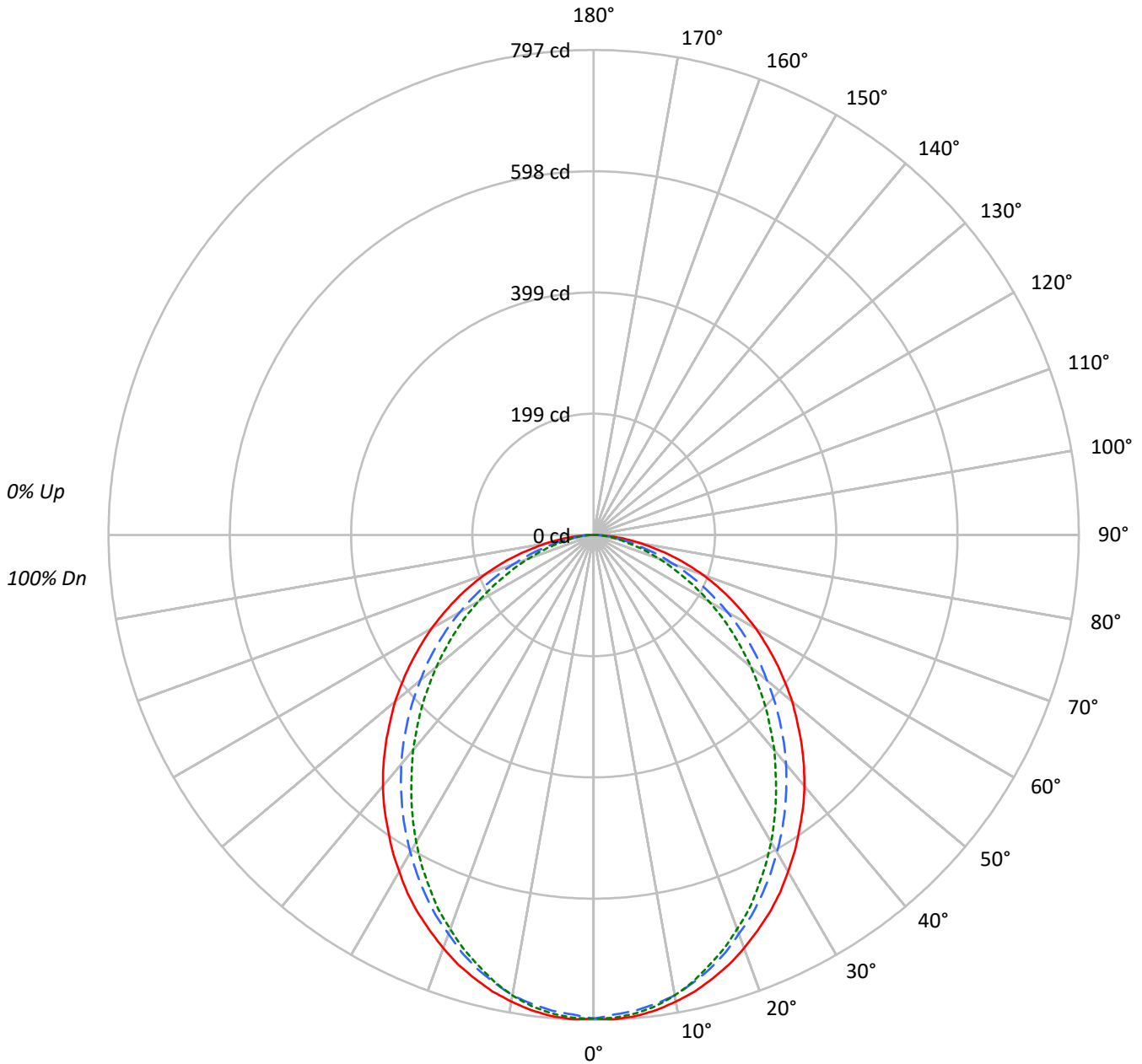
Lumens per Lamp: N/A
Luminaire Lumens: 1878.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')
CIE Type: Direct

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°	7560	7560	7560
5°	7577	7491	7536
10°	7520	7421	7421
15°	7431	7269	7211
20°	7315	7060	6975
25°	7181	6855	6703
30°	7015	6612	6402
35°	6845	6364	6064
40°	6687	6105	5732
45°	6492	5813	5369
50°	6297	5498	4992
55°	6074	5198	4591
60°	5847	4829	4156
65°	5581	4406	3659
70°	5278	3871	3156
75°	4854	3267	2627
80°	4277	2569	2207
85°	3601	2106	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	4.0
10°-20°	209.1	11.1
20°-30°	303.1	16.1
30°-40°	345.4	18.4
40°-50°	336.6	17.9
50°-60°	283.3	15.1
60°-70°	198.5	10.6
70°-80°	101.8	5.4
80°-90°	25.4	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°	587.0	31.3
0°-40°	932.4	49.6
0°-60°	1552.3	82.7
0°-90°	1878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	794	791	785	791	789	75
15°	755	751	738	738	732	213
25°	684	675	653	645	639	315
35°	590	575	548	531	522	369
45°	483	465	432	408	399	372
55°	366	347	314	286	277	327
65°	248	228	196	172	163	246
75°	132	114	89	76	72	140
85°	33	22	19	19	18	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.9	794.9	794.9	794.9	794.9
2.5°	796.7	794.9	788.9	794.9	794.3
5°	793.7	791.4	784.7	790.6	789.4
7.5°	787.7	785.2	777.4	782.2	781.1
10°	778.7	776.9	768.4	770.3	768.4
12.5°	768.4	766.0	753.9	755.2	752.3
15°	754.7	751.0	738.3	737.8	732.4
17.5°	740.2	734.9	719.7	716.9	712.6
20°	722.8	716.9	697.6	694.6	689.2
22.5°	703.6	697.6	677.3	670.6	666.3
25°	684.3	675.3	653.2	645.4	638.8
27.5°	662.8	651.9	628.5	618.4	611.8
30°	638.8	627.4	602.1	588.4	583.0
32.5°	615.3	601.6	575.8	560.2	553.0
35°	589.6	575.2	548.1	530.8	522.3
37.5°	565.0	547.5	519.8	499.6	491.0
40°	538.6	520.5	491.7	468.8	461.7
42.5°	510.8	492.2	462.2	440.7	429.2
45°	482.7	465.4	432.2	408.3	399.2
47.5°	453.1	435.3	402.1	377.6	367.4
50°	425.6	405.8	371.6	346.5	337.4
52.5°	395.6	375.3	343.3	315.7	306.7
55°	366.3	347.0	313.5	286.4	276.9
57.5°	336.2	315.7	283.4	256.9	248.6
60°	307.4	286.4	253.9	227.5	218.5
62.5°	276.9	256.9	224.0	199.9	190.9
65°	248.0	227.5	195.8	171.6	162.6
67.5°	219.1	198.8	168.0	145.3	138.2
70°	189.8	169.3	139.2	120.6	113.5
72.5°	160.9	141.1	113.5	96.7	92.5
75°	132.1	114.0	88.9	75.7	71.5
77.5°	102.6	88.2	67.2	57.1	53.5
80°	78.1	63.7	46.9	41.4	40.3
82.5°	54.0	41.4	31.3	29.3	28.8
85°	33.0	22.2	19.3	18.6	18.0
87.5°	13.9	9.6	9.0	9.0	8.4
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)