

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: P888448

Luminaire Tested: **DPT5-6FO36-85S40-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: P888448
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: DPT5-6FO36-85S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

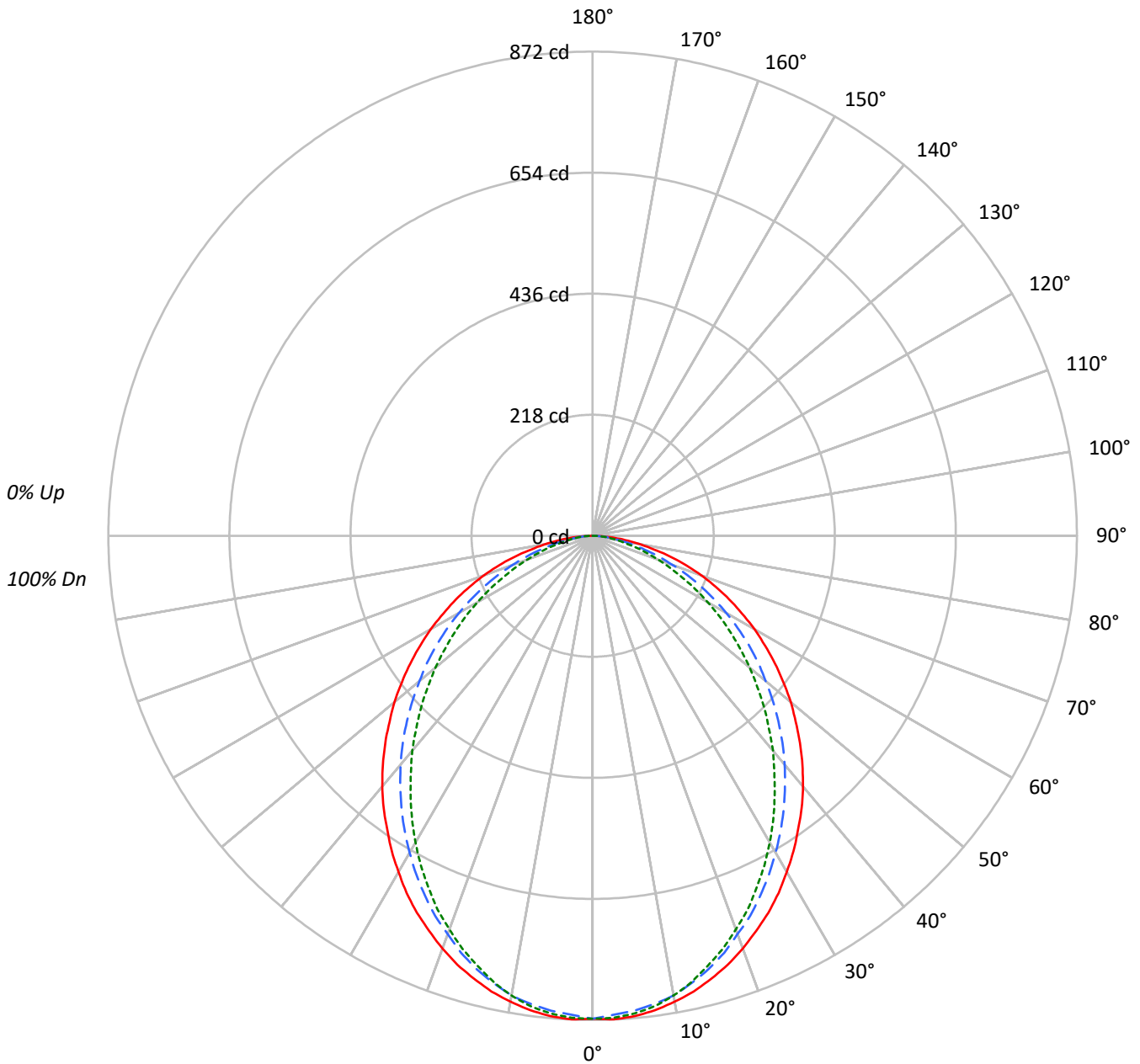
Lumens per Lamp: N/A
Luminaire Lumens: 2055.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')
CIE Type: Direct

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°	8272	8272	8272
5°	8291	8197	8246
10°	8228	8120	8120
15°	8131	7955	7892
20°	8005	7725	7633
25°	7858	7500	7335
30°	7676	7236	7005
35°	7490	6964	6635
40°	7316	6679	6272
45°	7103	6360	5876
50°	6892	6016	5463
55°	6646	5687	5022
60°	6397	5284	4548
65°	6108	4820	4003
70°	5776	4235	3454
75°	5310	3572	2874
80°	4677	2810	2415
85°	3939	2302	2150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	4.0
10°-20°	228.8	11.1
20°-30°	331.7	16.1
30°-40°	377.9	18.4
40°-50°	368.3	17.9
50°-60°	310.0	15.1
60°-70°	217.2	10.6
70°-80°	111.4	5.4
80°-90°	27.8	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°	642.3	31.3
0°-40°	1020.3	49.6
0°-60°	1698.6	82.7
0°-90°	2055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	868	866	859	865	864	82
15°	826	822	808	807	802	233
25°	749	739	715	706	699	345
35°	645	629	600	581	572	404
45°	528	509	473	447	437	407
55°	401	380	343	313	303	358
65°	271	249	214	188	178	269
75°	144	125	97	83	78	153
85°	36	24	21	20	20	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.8	869.8	869.8	869.8	869.8
2.5°	871.8	869.8	863.3	869.8	869.1
5°	868.5	865.9	858.6	865.1	863.7
7.5°	861.9	859.2	850.7	855.9	854.7
10°	852.0	850.1	840.8	842.9	840.8
12.5°	840.8	838.2	825.0	826.3	823.2
15°	825.8	821.8	807.9	807.3	801.5
17.5°	810.0	804.2	787.6	784.4	779.8
20°	790.9	784.4	763.3	760.0	754.2
22.5°	769.9	763.3	741.2	733.8	729.1
25°	748.8	739.0	714.7	706.2	699.0
27.5°	725.3	713.4	687.8	676.7	669.5
30°	699.0	686.6	658.9	643.9	637.9
32.5°	673.3	658.3	630.0	613.0	605.2
35°	645.1	629.4	599.8	580.8	571.5
37.5°	618.2	599.1	568.8	546.7	537.3
40°	589.3	569.6	538.0	513.0	505.2
42.5°	559.0	538.6	505.7	482.2	469.7
45°	528.1	509.3	472.9	446.7	436.9
47.5°	495.9	476.4	440.0	413.2	402.0
50°	465.8	444.1	406.6	379.1	369.2
52.5°	432.8	410.7	375.7	345.5	335.6
55°	400.8	379.7	343.0	313.4	302.9
57.5°	367.9	345.5	310.1	281.1	272.0
60°	336.3	313.4	277.8	249.0	239.1
62.5°	302.9	281.1	245.1	218.7	208.9
65°	271.4	249.0	214.2	187.8	177.9
67.5°	239.7	217.5	183.9	159.0	151.2
70°	207.7	185.2	152.3	132.0	124.2
72.5°	176.1	154.4	124.2	105.8	101.3
75°	144.5	124.8	97.2	82.9	78.2
77.5°	112.2	96.5	73.5	62.5	58.5
80°	85.4	69.7	51.3	45.3	44.1
82.5°	59.1	45.3	34.2	32.0	31.6
85°	36.1	24.3	21.1	20.4	19.7
87.5°	15.2	10.5	9.9	9.9	9.1
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)