

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: P888173

Luminaire Tested: **DPT5-6FO36-85S40-A-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: P888173
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-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

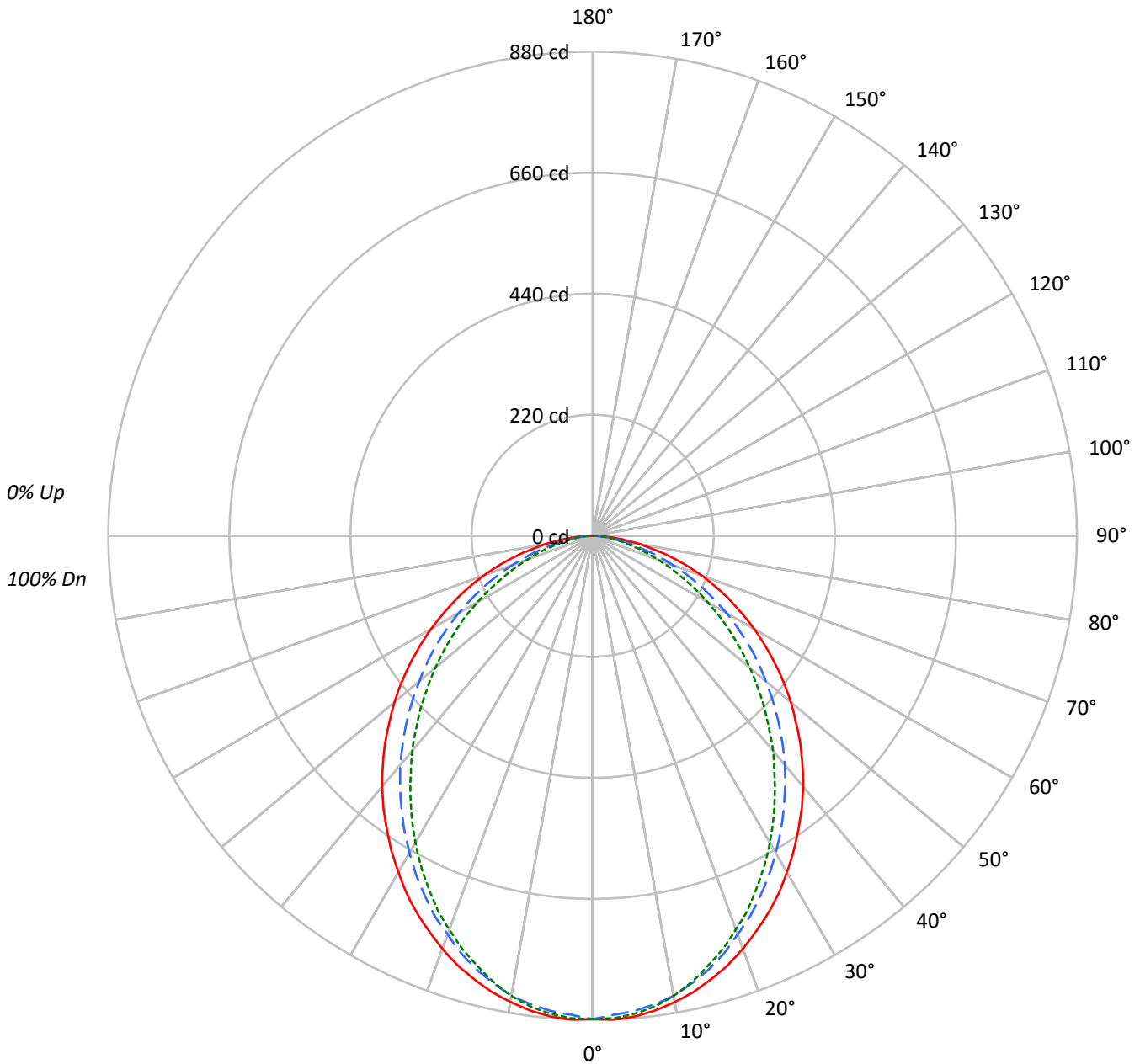
Lumens per Lamp: N/A
Luminaire Lumens: 2075.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P888173

CATALOG NUMBER: DPT5-6FO36-85S40-A-XX-UDD

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°	8353	8353	8353
5°	8373	8277	8327
10°	8308	8199	8199
15°	8211	8032	7968
20°	8083	7801	7707
25°	7934	7573	7406
30°	7751	7306	7073
35°	7563	7031	6700
40°	7388	6745	6334
45°	7173	6422	5933
50°	6958	6075	5516
55°	6710	5744	5072
60°	6460	5335	4592
65°	6166	4868	4042
70°	5831	4277	3487
75°	5361	3608	2903
80°	4727	2837	2437
85°	3972	2324	2172



TEST NUMBER: P888173

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	4.0
10°-20°	231.0	11.1
20°-30°	334.9	16.1
30°-40°	381.6	18.4
40°-50°	371.9	17.9
50°-60°	313.0	15.1
60°-70°	219.3	10.6
70°-80°	112.5	5.4
80°-90°	28.1	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°	648.6	31.3
0°-40°	1030.2	49.6
0°-60°	1715.2	82.7
0°-90°	2075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	877	874	867	874	872	83
15°	834	830	816	815	809	235
25°	756	746	722	713	706	348
35°	651	636	606	586	577	408
45°	533	514	478	451	441	411
55°	405	383	346	316	306	362
65°	274	251	216	190	180	271
75°	146	126	98	84	79	154
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°	878.3	878.3	878.3	878.3	878.3
2.5°	880.3	878.3	871.7	878.3	877.6
5°	877.0	874.4	867.0	873.5	872.2
7.5°	870.3	867.6	859.0	864.3	863.0
10°	860.3	858.4	849.0	851.1	849.0
12.5°	849.0	846.3	833.0	834.4	831.2
15°	833.9	829.8	815.8	815.2	809.3
17.5°	817.9	812.0	795.2	792.1	787.4
20°	798.6	792.1	770.8	767.4	761.5
22.5°	777.4	770.8	748.4	741.0	736.2
25°	756.1	746.2	721.7	713.1	705.8
27.5°	732.4	720.3	694.5	683.3	676.0
30°	705.8	693.2	665.3	650.2	644.1
32.5°	679.8	664.7	636.2	618.9	611.0
35°	651.4	635.5	605.6	586.4	577.1
37.5°	624.2	604.9	574.4	552.0	542.5
40°	595.1	575.1	543.3	518.0	510.2
42.5°	564.4	543.9	510.6	486.9	474.2
45°	533.3	514.2	477.5	451.1	441.1
47.5°	500.7	481.0	444.3	417.3	405.9
50°	470.3	448.4	410.6	382.8	372.8
52.5°	437.1	414.7	379.4	348.8	338.9
55°	404.7	383.4	346.4	316.5	305.9
57.5°	371.5	348.8	313.2	283.9	274.6
60°	339.6	316.5	280.5	251.4	241.4
62.5°	305.9	283.9	247.4	220.9	210.9
65°	274.0	251.4	216.3	189.6	179.6
67.5°	242.0	219.6	185.7	160.6	152.7
70°	209.7	187.0	153.8	133.3	125.4
72.5°	177.8	155.9	125.4	106.8	102.3
75°	145.9	126.0	98.2	83.7	79.0
77.5°	113.3	97.5	74.2	63.1	59.1
80°	86.3	70.4	51.8	45.8	44.5
82.5°	59.7	45.8	34.6	32.4	31.9
85°	36.4	24.5	21.3	20.5	19.9
87.5°	15.4	10.6	10.0	10.0	9.2
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)