

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: P888492

Luminaire Tested: **DPT5-6FO44-61S40-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: P888492
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: DPT5-6FO44-61S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

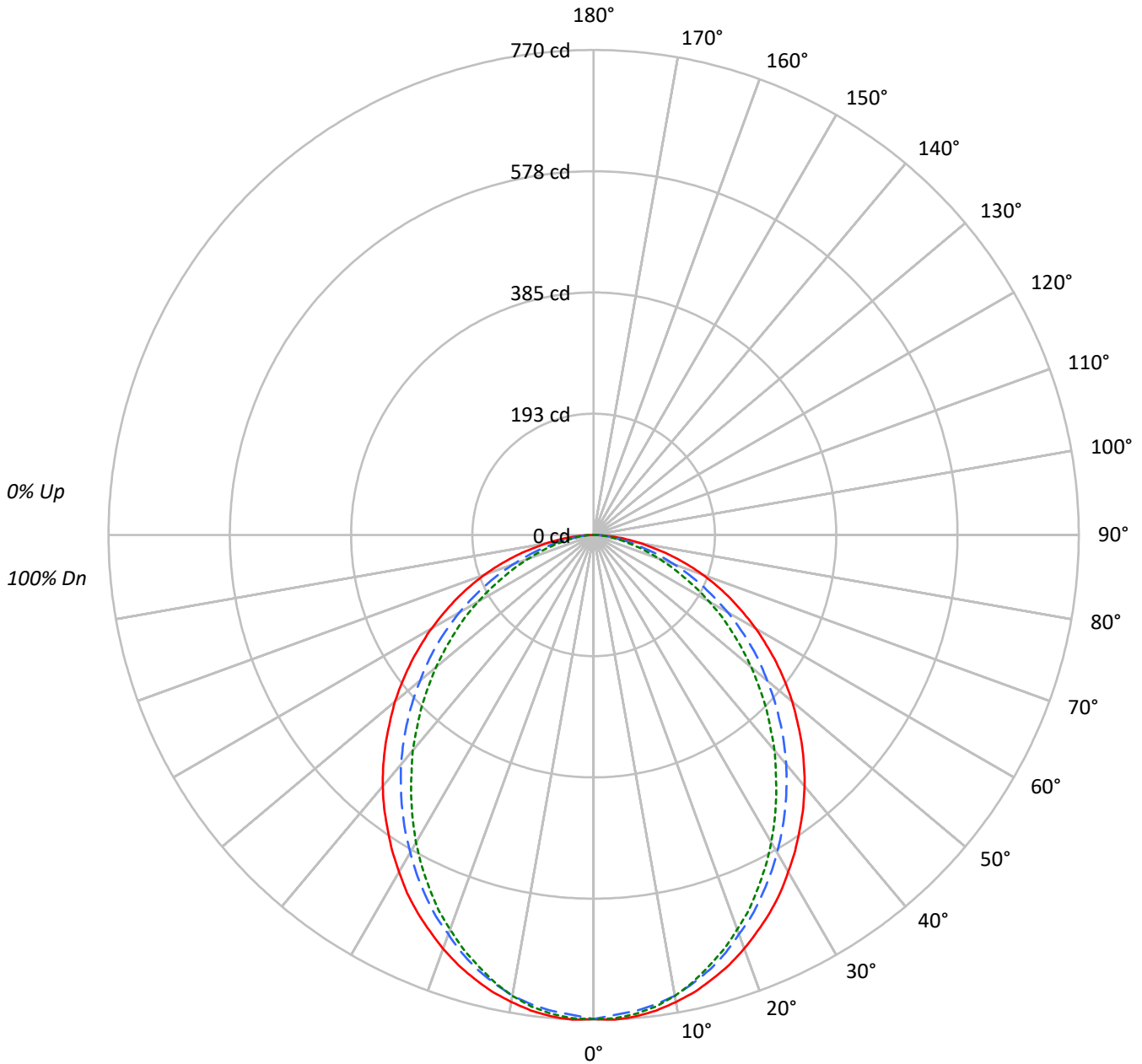
Lumens per Lamp: N/A
Luminaire Lumens: 1816.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
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°	5943	5943	5943
5°	5956	5889	5923
10°	5911	5833	5833
15°	5841	5715	5669
20°	5750	5550	5483
25°	5644	5388	5269
30°	5514	5198	5032
35°	5380	5002	4767
40°	5256	4798	4506
45°	5102	4569	4221
50°	4950	4322	3924
55°	4774	4085	3608
60°	4595	3796	3267
65°	4387	3463	2876
70°	4148	3042	2480
75°	3814	2566	2064
80°	3361	2017	1736
85°	2830	1650	1543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	4.0
10°-20°	202.2	11.1
20°-30°	293.1	16.1
30°-40°	334.0	18.4
40°-50°	325.5	17.9
50°-60°	274.0	15.1
60°-70°	192.0	10.6
70°-80°	98.4	5.4
80°-90°	24.6	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°	567.6	31.3
0°-40°	901.6	49.6
0°-60°	1501.1	82.7
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	768	765	759	764	763	73
15°	730	726	714	713	708	206
25°	662	653	632	624	618	305
35°	570	556	530	513	505	357
45°	467	450	418	395	386	360
55°	354	336	303	277	268	317
65°	240	220	189	166	157	237
75°	128	110	86	73	69	135
85°	32	21	19	18	17	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.7	768.7	768.7	768.7	768.7
2.5°	770.4	768.7	762.9	768.7	768.0
5°	767.5	765.2	758.8	764.5	763.3
7.5°	761.7	759.3	751.8	756.4	755.3
10°	753.0	751.2	743.0	744.9	743.0
12.5°	743.0	740.7	729.0	730.2	727.4
15°	729.8	726.2	714.0	713.4	708.3
17.5°	715.8	710.6	696.0	693.2	689.1
20°	698.9	693.2	674.6	671.6	666.5
22.5°	680.4	674.6	655.0	648.5	644.3
25°	661.7	653.0	631.6	624.1	617.7
27.5°	641.0	630.4	607.8	598.0	591.6
30°	617.7	606.7	582.3	569.0	563.7
32.5°	595.0	581.7	556.7	541.7	534.8
35°	570.1	556.2	530.0	513.2	505.1
37.5°	546.3	529.4	502.7	483.1	474.8
40°	520.8	503.3	475.4	453.4	446.5
42.5°	494.0	476.0	446.9	426.1	415.0
45°	466.7	450.0	417.9	394.8	386.1
47.5°	438.2	421.0	388.9	365.2	355.3
50°	411.6	392.4	359.4	335.0	326.3
52.5°	382.5	362.9	332.0	305.3	296.6
55°	354.2	335.6	303.1	277.0	267.7
57.5°	325.1	305.3	274.1	248.4	240.4
60°	297.2	277.0	245.5	220.0	211.3
62.5°	267.7	248.4	216.6	193.3	184.6
65°	239.8	220.0	189.3	165.9	157.2
67.5°	211.8	192.2	162.5	140.5	133.6
70°	183.5	163.7	134.6	116.6	109.7
72.5°	155.6	136.4	109.7	93.5	89.5
75°	127.7	110.3	85.9	73.2	69.1
77.5°	99.2	85.3	64.9	55.2	51.7
80°	75.5	61.6	45.3	40.1	39.0
82.5°	52.2	40.1	30.3	28.3	27.9
85°	31.9	21.4	18.6	18.0	17.4
87.5°	13.5	9.3	8.7	8.7	8.1
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)