

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: P888504

Luminaire Tested: **DPT5-6FO44-85V60-F-XX-UDD_2700K**

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: P888504
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: DPT5-6FO44-85V60-F-XX-UDD_2700K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

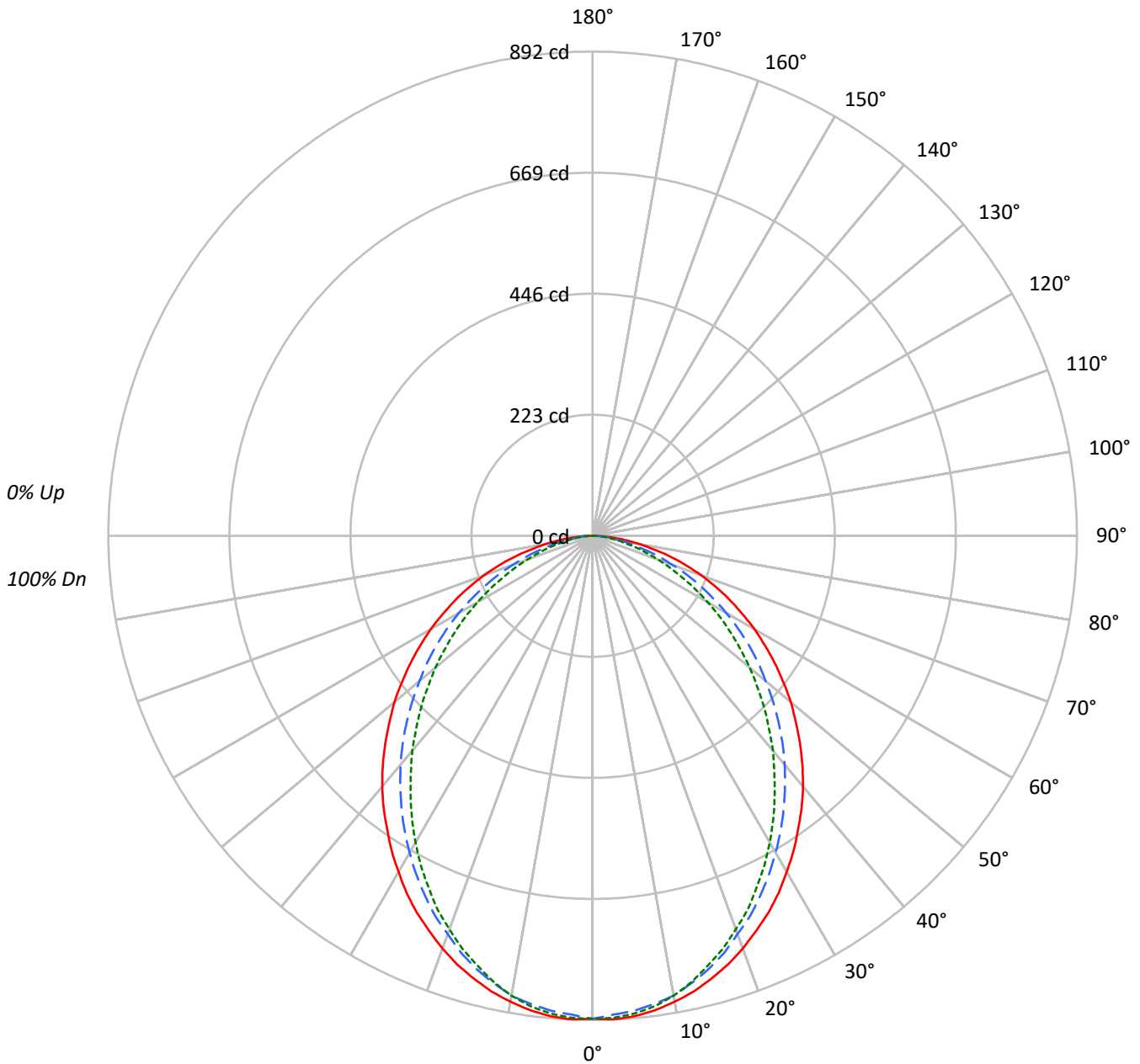
Lumens per Lamp: N/A
Luminaire Lumens: 2102.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 24.8
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				20				20	
RC	80				70				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				100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61				61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53				53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41				41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36				36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33				33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29				29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6878	6878	6878
5°	6894	6816	6856
10°	6841	6752	6752
15°	6761	6614	6561
20°	6656	6424	6346
25°	6534	6236	6099
30°	6383	6017	5825
35°	6228	5790	5517
40°	6083	5554	5215
45°	5906	5289	4886
50°	5730	5002	4543
55°	5526	4730	4177
60°	5319	4394	3782
65°	5078	4008	3329
70°	4801	3522	2871
75°	4415	2972	2390
80°	3891	2337	2008
85°	3273	1916	1792



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	4.0
10°-20°	234.0	11.1
20°-30°	339.3	16.1
30°-40°	386.6	18.4
40°-50°	376.8	17.9
50°-60°	317.1	15.1
60°-70°	222.2	10.6
70°-80°	113.9	5.4
80°-90°	28.4	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°	657.0	31.3
0°-40°	1043.6	49.6
0°-60°	1737.5	82.7
0°-90°	2102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	888	886	878	885	884	84
15°	845	841	826	826	820	238
25°	766	756	731	722	715	353
35°	660	644	614	594	585	413
45°	540	521	484	457	447	417
55°	410	388	351	321	310	367
65°	278	255	219	192	182	275
75°	148	128	100	85	80	156
85°	37	25	22	21	20	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.7	889.7	889.7	889.7	889.7
2.5°	891.7	889.7	883.0	889.7	889.0
5°	888.4	885.7	878.3	884.9	883.5
7.5°	881.6	878.9	870.2	875.5	874.3
10°	871.5	869.5	860.1	862.2	860.1
12.5°	860.1	857.3	843.9	845.2	842.0
15°	844.7	840.6	826.4	825.8	819.8
17.5°	828.5	822.5	805.6	802.4	797.6
20°	809.0	802.4	780.8	777.4	771.4
22.5°	787.5	780.8	758.1	750.6	745.8
25°	766.0	755.9	731.1	722.3	715.0
27.5°	741.9	729.7	703.5	692.2	684.8
30°	715.0	702.3	674.0	658.6	652.5
32.5°	688.7	673.3	644.4	627.0	619.0
35°	659.9	643.8	613.5	594.1	584.6
37.5°	632.3	612.8	581.9	559.2	549.6
40°	602.8	582.6	550.3	524.8	516.8
42.5°	571.8	550.9	517.3	493.2	480.4
45°	540.2	520.9	483.8	457.0	446.9
47.5°	507.2	487.2	450.1	422.7	411.2
50°	476.4	454.2	415.9	387.8	377.7
52.5°	442.7	420.1	384.3	353.4	343.3
55°	410.0	388.4	350.9	320.6	309.9
57.5°	376.3	353.4	317.2	287.6	278.2
60°	344.0	320.6	284.2	254.7	244.6
62.5°	309.9	287.6	250.7	223.7	213.6
65°	277.6	254.7	219.1	192.1	182.0
67.5°	245.2	222.5	188.1	162.7	154.7
70°	212.4	189.5	155.8	135.0	127.0
72.5°	180.1	157.9	127.0	108.2	103.6
75°	147.8	127.6	99.5	84.8	80.0
77.5°	114.8	98.7	75.2	63.9	59.8
80°	87.4	71.3	52.5	46.4	45.1
82.5°	60.5	46.4	35.0	32.8	32.3
85°	36.9	24.8	21.6	20.8	20.2
87.5°	15.6	10.7	10.1	10.1	9.3
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)