

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: P888506

Luminaire Tested: **DPT5-6FO44-85V60-F-XX-UDD_3500K**

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: P888506
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_3500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

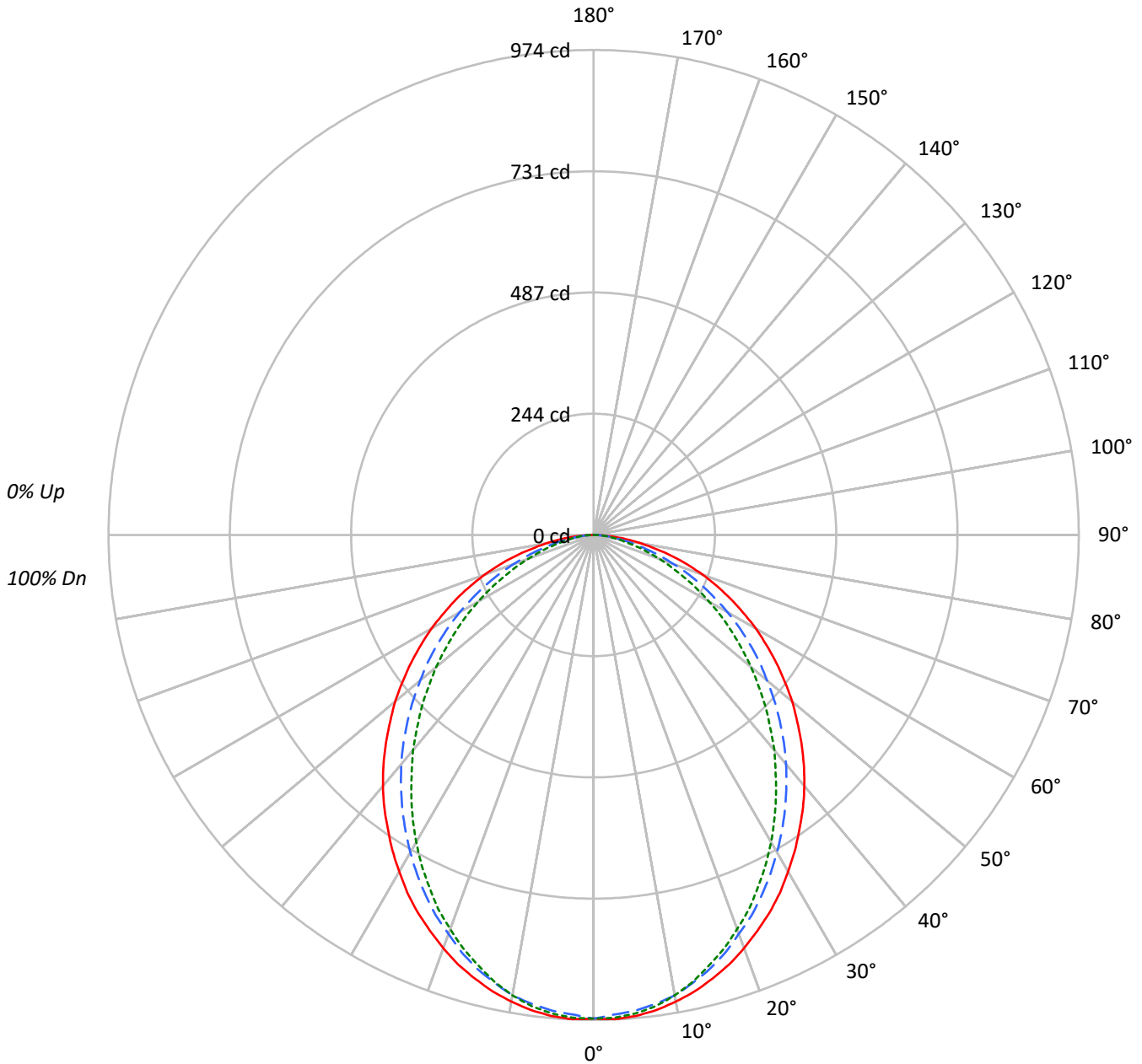
Lumens per Lamp: N/A
Luminaire Lumens: 2295.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

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									
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°	7510	7510	7510
5°	7527	7441	7486
10°	7470	7371	7371
15°	7382	7222	7164
20°	7266	7013	6930
25°	7134	6809	6659
30°	6968	6569	6359
35°	6800	6321	6024
40°	6641	6063	5694
45°	6448	5775	5334
50°	6255	5461	4960
55°	6033	5164	4560
60°	5807	4798	4128
65°	5544	4377	3635
70°	5242	3845	3135
75°	4821	3244	2611
80°	4247	2551	2195
85°	3575	2084	1951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	4.0
10°-20°	255.5	11.1
20°-30°	370.5	16.1
30°-40°	422.1	18.4
40°-50°	411.4	17.9
50°-60°	346.2	15.1
60°-70°	242.6	10.6
70°-80°	124.4	5.4
80°-90°	31.0	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°	717.4	31.3
0°-40°	1139.4	49.6
0°-60°	1897.0	82.7
0°-90°	2295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	970	967	959	966	965	92
15°	922	918	902	902	895	260
25°	836	825	798	789	781	385
35°	720	703	670	649	638	451
45°	590	569	528	499	488	455
55°	448	424	383	350	338	400
65°	303	278	239	210	199	300
75°	161	139	109	92	87	171
85°	40	27	24	23	22	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.4	971.4	971.4	971.4	971.4
2.5°	973.6	971.4	964.1	971.4	970.6
5°	969.9	967.1	958.9	966.1	964.6
7.5°	962.6	959.6	950.1	955.9	954.6
10°	951.6	949.4	939.0	941.4	939.0
12.5°	939.0	936.0	921.3	922.8	919.3
15°	922.3	917.8	902.3	901.6	895.1
17.5°	904.6	898.1	879.6	876.0	870.9
20°	883.2	876.0	852.5	848.8	842.3
22.5°	859.8	852.5	827.7	819.5	814.2
25°	836.3	825.3	798.2	788.7	780.6
27.5°	810.0	796.7	768.1	755.7	747.7
30°	780.6	766.7	735.9	719.1	712.4
32.5°	751.9	735.2	703.6	684.5	675.8
35°	720.5	702.9	669.8	648.6	638.3
37.5°	690.4	669.0	635.3	610.5	600.0
40°	658.1	636.1	600.8	572.9	564.2
42.5°	624.3	601.5	564.8	538.5	524.5
45°	589.8	568.7	528.2	498.9	487.9
47.5°	553.8	532.0	491.4	461.5	449.0
50°	520.1	495.9	454.1	423.4	412.4
52.5°	483.4	458.6	419.6	385.8	374.8
55°	447.6	424.1	383.1	350.0	338.3
57.5°	410.9	385.8	346.4	314.0	303.8
60°	375.6	350.0	310.3	278.0	267.0
62.5°	338.3	314.0	273.7	244.3	233.3
65°	303.1	278.0	239.3	209.7	198.7
67.5°	267.7	242.9	205.4	177.6	168.9
70°	231.9	206.9	170.1	147.4	138.7
72.5°	196.7	172.4	138.7	118.1	113.1
75°	161.4	139.4	108.6	92.5	87.4
77.5°	125.3	107.8	82.1	69.8	65.3
80°	95.4	77.8	57.3	50.6	49.3
82.5°	66.0	50.6	38.2	35.8	35.2
85°	40.3	27.1	23.5	22.7	22.0
87.5°	17.0	11.7	11.0	11.0	10.2
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)