

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: P888508

Luminaire Tested: **DPT5-6FO44-85V60-F-XX-UDD_4500K**

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: P888508
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_4500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

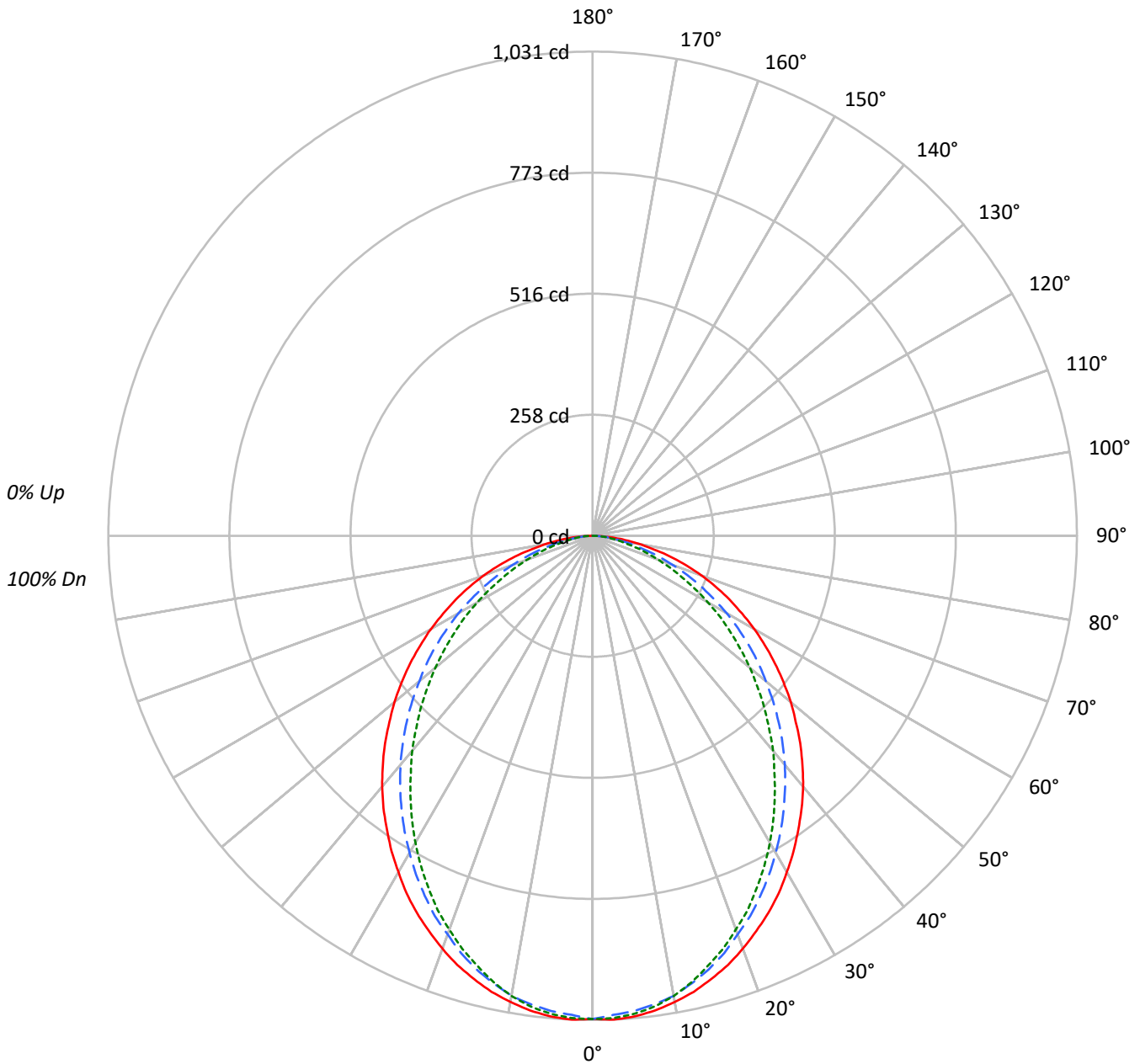
Lumens per Lamp: N/A
Luminaire Lumens: 2431.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P888508

CATALOG NUMBER: DPT5-6FO44-85V60-F-XX-UDD_4500K

Luminous Intensity Polar Plot





TEST NUMBER: P888508

CATALOG NUMBER: DPT5-6FO44-85V60-F-XX-UDD_4500K

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°	7955	7955	7955
5°	7973	7882	7930
10°	7912	7808	7808
15°	7819	7650	7588
20°	7697	7429	7340
25°	7556	7212	7053
30°	7382	6958	6737
35°	7203	6696	6381
40°	7035	6423	6032
45°	6831	6117	5650
50°	6627	5786	5253
55°	6390	5469	4831
60°	6152	5082	4373
65°	5872	4635	3851
70°	5551	4073	3320
75°	5108	3435	2763
80°	4501	2702	2324
85°	3788	2209	2076



TEST NUMBER: P888508

CATALOG NUMBER: DPT5-6FO44-85V60-F-XX-UDD_4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	4.0
10°-20°	270.6	11.1
20°-30°	392.4	16.1
30°-40°	447.1	18.4
40°-50°	435.7	17.9
50°-60°	366.7	15.1
60°-70°	257.0	10.6
70°-80°	131.7	5.4
80°-90°	32.9	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°	759.9	31.3
0°-40°	1206.9	49.6
0°-60°	2009.4	82.7
0°-90°	2431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1027	1024	1016	1023	1022	97
15°	977	972	956	955	948	275
25°	886	874	846	835	827	408
35°	763	745	710	687	676	478
45°	625	602	560	528	517	482
55°	474	449	406	371	358	424
65°	321	294	253	222	210	318
75°	171	148	115	98	92	181
85°	43	29	25	24	23	49
90°	0	0	0	0	0	



TEST NUMBER: P888508

CATALOG NUMBER: DPT5-6FO44-85V60-F-XX-UDD_4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1031.3	1029.0	1021.2	1029.0	1028.1
5°	1027.4	1024.4	1015.7	1023.4	1021.8
7.5°	1019.6	1016.5	1006.4	1012.6	1011.1
10°	1007.9	1005.6	994.7	997.1	994.7
12.5°	994.7	991.5	975.9	977.5	973.8
15°	977.0	972.2	955.8	955.0	948.1
17.5°	958.2	951.3	931.7	927.9	922.5
20°	935.6	927.9	903.0	899.1	892.2
22.5°	910.8	903.0	876.8	868.1	862.5
25°	885.8	874.2	845.5	835.4	826.9
27.5°	858.0	843.9	813.6	800.5	792.0
30°	826.9	812.2	779.5	761.7	754.7
32.5°	796.5	778.7	745.3	725.1	715.9
35°	763.2	744.6	709.5	687.1	676.1
37.5°	731.3	708.7	672.9	646.7	635.6
40°	697.1	673.8	636.5	606.9	597.7
42.5°	661.2	637.2	598.3	570.4	555.6
45°	624.8	602.4	559.5	528.5	516.8
47.5°	586.6	563.5	520.6	488.8	475.6
50°	551.0	525.3	481.1	448.5	436.8
52.5°	512.0	485.8	444.4	408.7	397.0
55°	474.1	449.2	405.8	370.8	358.4
57.5°	435.2	408.7	366.9	332.6	321.8
60°	397.9	370.8	328.7	294.5	282.8
62.5°	358.4	332.6	289.9	258.8	247.1
65°	321.0	294.5	253.4	222.1	210.5
67.5°	283.6	257.3	217.5	188.1	178.9
70°	245.6	219.1	180.2	156.1	146.9
72.5°	208.3	182.6	146.9	125.1	119.8
75°	171.0	147.6	115.0	98.0	92.5
77.5°	132.8	114.2	86.9	74.0	69.2
80°	101.1	82.5	60.7	53.6	52.2
82.5°	69.9	53.6	40.5	37.9	37.3
85°	42.7	28.7	24.9	24.1	23.4
87.5°	18.0	12.4	11.7	11.7	10.8
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)