

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: P888509

Luminaire Tested: **DPT5-6FO44-85V60-F-XX-UDD_5000K**

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: P888509
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_5000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

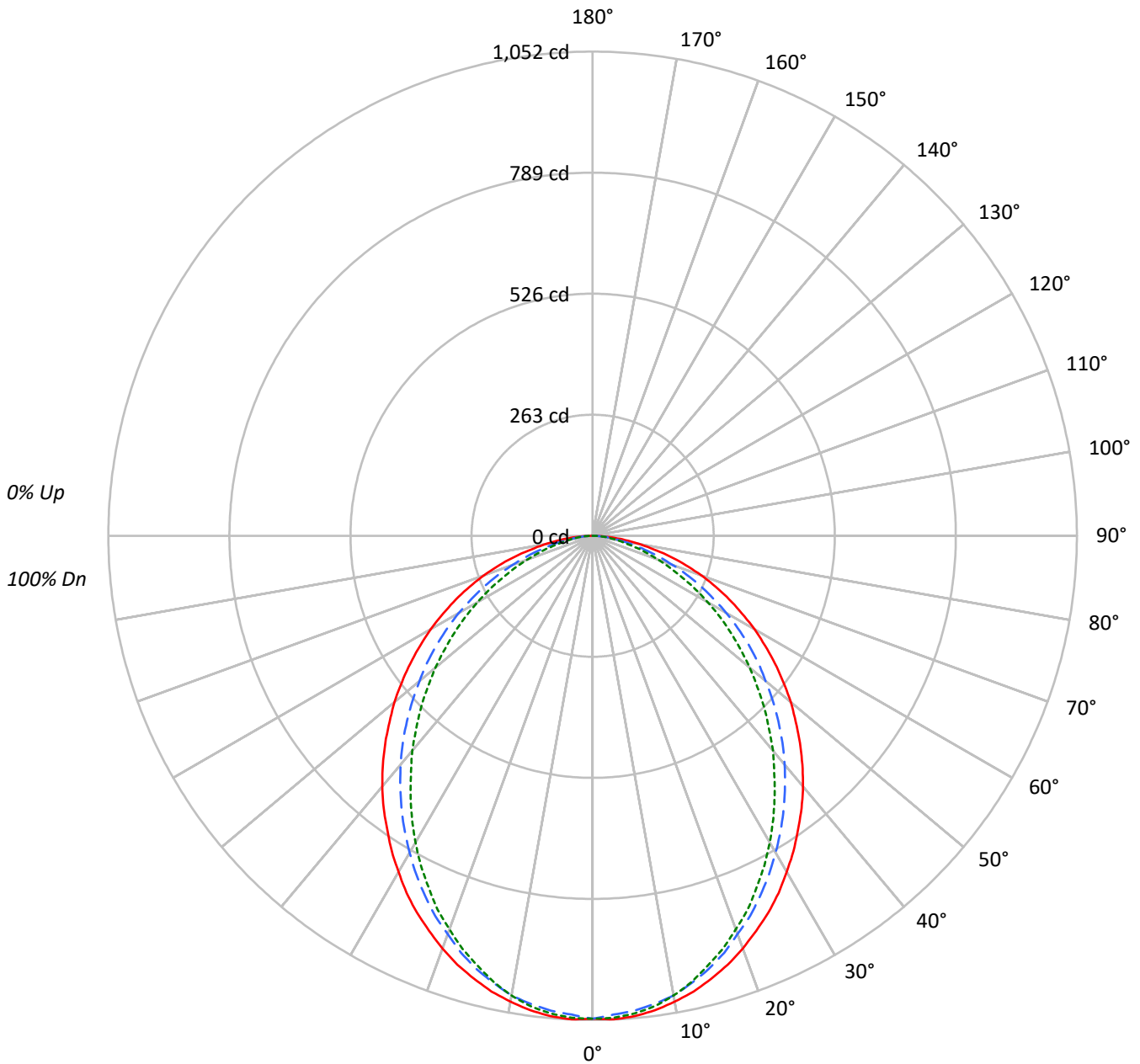
Lumens per Lamp: N/A
Luminaire Lumens: 2479.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

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

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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°	8112	8112	8112
5°	8130	8038	8086
10°	8068	7962	7962
15°	7973	7800	7738
20°	7849	7575	7485
25°	7705	7355	7192
30°	7527	7095	6870
35°	7344	6829	6506
40°	7174	6550	6151
45°	6965	6237	5762
50°	6757	5900	5357
55°	6517	5577	4926
60°	6273	5183	4459
65°	5989	4727	3926
70°	5662	4154	3386
75°	5206	3504	2820
80°	4586	2756	2368
85°	3858	2253	2111



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	4.0
10°-20°	276.0	11.1
20°-30°	400.2	16.1
30°-40°	455.9	18.4
40°-50°	444.3	17.9
50°-60°	374.0	15.1
60°-70°	262.0	10.6
70°-80°	134.4	5.4
80°-90°	33.5	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°	774.9	31.3
0°-40°	1230.8	49.6
0°-60°	2049.1	82.7
0°-90°	2479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1048	1045	1036	1044	1042	99
15°	996	991	975	974	967	281
25°	903	891	862	852	843	416
35°	778	759	724	701	689	487
45°	637	614	570	539	527	491
55°	484	458	414	378	366	432
65°	327	300	258	226	215	324
75°	174	150	117	100	94	184
85°	44	29	25	24	24	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1049.3	1049.3	1049.3	1049.3	1049.3
2.5°	1051.7	1049.3	1041.4	1049.3	1048.4
5°	1047.7	1044.6	1035.8	1043.6	1042.0
7.5°	1039.8	1036.5	1026.2	1032.6	1031.1
10°	1027.8	1025.5	1014.3	1016.8	1014.3
12.5°	1014.3	1011.1	995.2	996.8	993.0
15°	996.2	991.4	974.6	973.9	966.8
17.5°	977.1	970.1	950.1	946.3	940.7
20°	954.1	946.3	920.8	916.9	909.8
22.5°	928.8	920.8	894.1	885.3	879.5
25°	903.3	891.4	862.2	851.9	843.2
27.5°	875.0	860.6	829.7	816.3	807.6
30°	843.2	828.2	794.8	776.8	769.6
32.5°	812.2	794.1	760.0	739.4	730.0
35°	778.2	759.3	723.6	700.6	689.4
37.5°	745.7	722.7	686.2	659.5	648.1
40°	710.9	687.1	649.0	618.9	609.5
42.5°	674.3	649.8	610.1	581.7	566.6
45°	637.1	614.3	570.5	538.9	527.0
47.5°	598.2	574.6	530.8	498.5	485.0
50°	561.8	535.7	490.6	457.3	445.4
52.5°	522.2	495.4	453.2	416.8	404.8
55°	483.5	458.1	413.8	378.1	365.5
57.5°	443.8	416.8	374.1	339.1	328.1
60°	405.7	378.1	335.2	300.3	288.4
62.5°	365.5	339.1	295.6	263.9	252.0
65°	327.4	300.3	258.4	226.5	214.6
67.5°	289.2	262.4	221.8	191.8	182.4
70°	250.5	223.4	183.8	159.2	149.8
72.5°	212.4	186.3	149.8	127.6	122.2
75°	174.3	150.5	117.3	100.0	94.4
77.5°	135.4	116.4	88.6	75.4	70.6
80°	103.0	84.1	61.9	54.7	53.2
82.5°	71.3	54.7	41.3	38.7	38.1
85°	43.5	29.3	25.4	24.5	23.8
87.5°	18.4	12.6	11.9	11.9	11.0
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)