

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: P888478

Luminaire Tested: **DPT5-6FO44-37S27-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: P888478
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: DPT5-6FO44-37S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

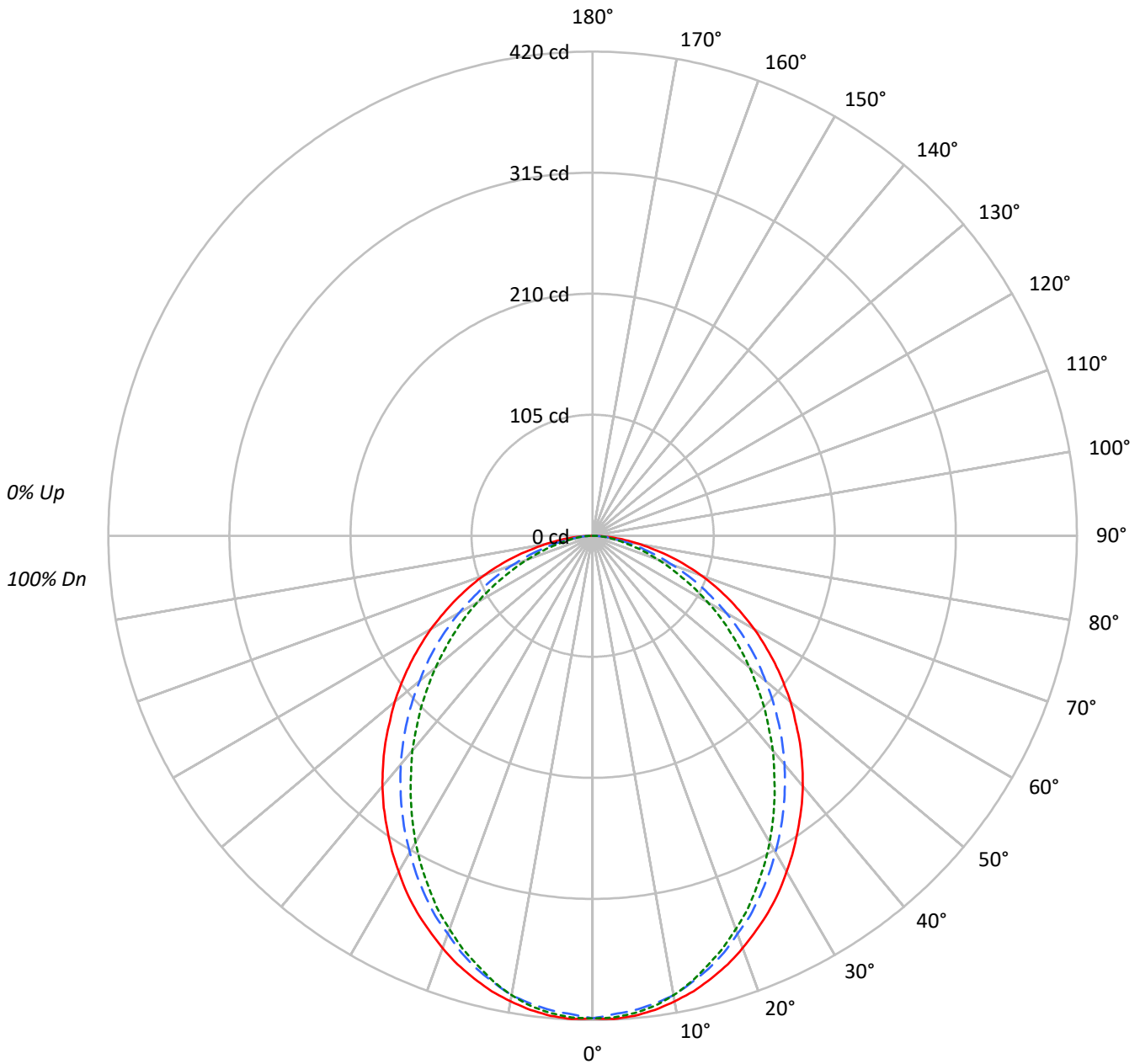
Lumens per Lamp: N/A
Luminaire Lumens: 989.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 10.8
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°	3236	3236	3236
5°	3244	3207	3226
10°	3219	3177	3177
15°	3181	3112	3087
20°	3131	3023	2986
25°	3074	2934	2869
30°	3003	2831	2741
35°	2930	2725	2596
40°	2862	2613	2454
45°	2779	2488	2299
50°	2695	2354	2137
55°	2600	2225	1965
60°	2503	2067	1780
65°	2389	1886	1566
70°	2258	1657	1352
75°	2079	1398	1126
80°	1830	1100	944
85°	1543	896	843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	4.0
10°-20°	110.1	11.1
20°-30°	159.6	16.1
30°-40°	181.9	18.4
40°-50°	177.3	17.9
50°-60°	149.2	15.1
60°-70°	104.5	10.6
70°-80°	53.6	5.4
80°-90°	13.4	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°	309.1	31.3
0°-40°	491.0	49.6
0°-60°	817.5	82.7
0°-90°	989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	418	417	413	416	416	40
15°	398	396	389	388	386	112
25°	360	356	344	340	336	166
35°	310	303	289	280	275	194
45°	254	245	228	215	210	196
55°	193	183	165	151	146	172
65°	131	120	103	90	86	129
75°	70	60	47	40	38	74
85°	17	12	10	10	10	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.6	418.6	418.6	418.6	418.6
2.5°	419.6	418.6	415.5	418.6	418.3
5°	418.0	416.7	413.2	416.3	415.7
7.5°	414.8	413.5	409.4	411.9	411.4
10°	410.1	409.1	404.7	405.7	404.7
12.5°	404.7	403.4	397.0	397.7	396.2
15°	397.5	395.5	388.8	388.5	385.7
17.5°	389.8	387.0	379.0	377.5	375.3
20°	380.6	377.5	367.4	365.8	363.0
22.5°	370.5	367.4	356.7	353.2	350.9
25°	360.4	355.6	344.0	339.9	336.4
27.5°	349.1	343.3	331.0	325.7	322.2
30°	336.4	330.4	317.1	309.9	307.0
32.5°	324.0	316.8	303.2	295.0	291.2
35°	310.5	302.9	288.7	279.5	275.1
37.5°	297.5	288.3	273.8	263.1	258.6
40°	283.6	274.1	258.9	246.9	243.2
42.5°	269.0	259.2	243.4	232.1	226.0
45°	254.2	245.1	227.6	215.0	210.3
47.5°	238.6	229.3	211.8	198.9	193.5
50°	224.1	213.7	195.7	182.5	177.7
52.5°	208.3	197.6	180.8	166.3	161.5
55°	192.9	182.7	165.1	150.8	145.8
57.5°	177.1	166.3	149.3	135.3	130.9
60°	161.9	150.8	133.7	119.8	115.1
62.5°	145.8	135.3	117.9	105.3	100.5
65°	130.6	119.8	103.1	90.4	85.6
67.5°	115.4	104.7	88.5	76.5	72.8
70°	99.9	89.1	73.3	63.5	59.8
72.5°	84.7	74.3	59.8	50.9	48.7
75°	69.6	60.1	46.8	39.9	37.7
77.5°	54.0	46.4	35.4	30.1	28.2
80°	41.1	33.5	24.7	21.8	21.2
82.5°	28.4	21.8	16.5	15.4	15.2
85°	17.4	11.7	10.1	9.8	9.5
87.5°	7.3	5.0	4.8	4.8	4.4
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)