

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: P888209

Luminaire Tested: **DPT5-6FO44-37V60-A-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: P888209
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: DPT5-6FO44-37V60-A-XX-UDD_3500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

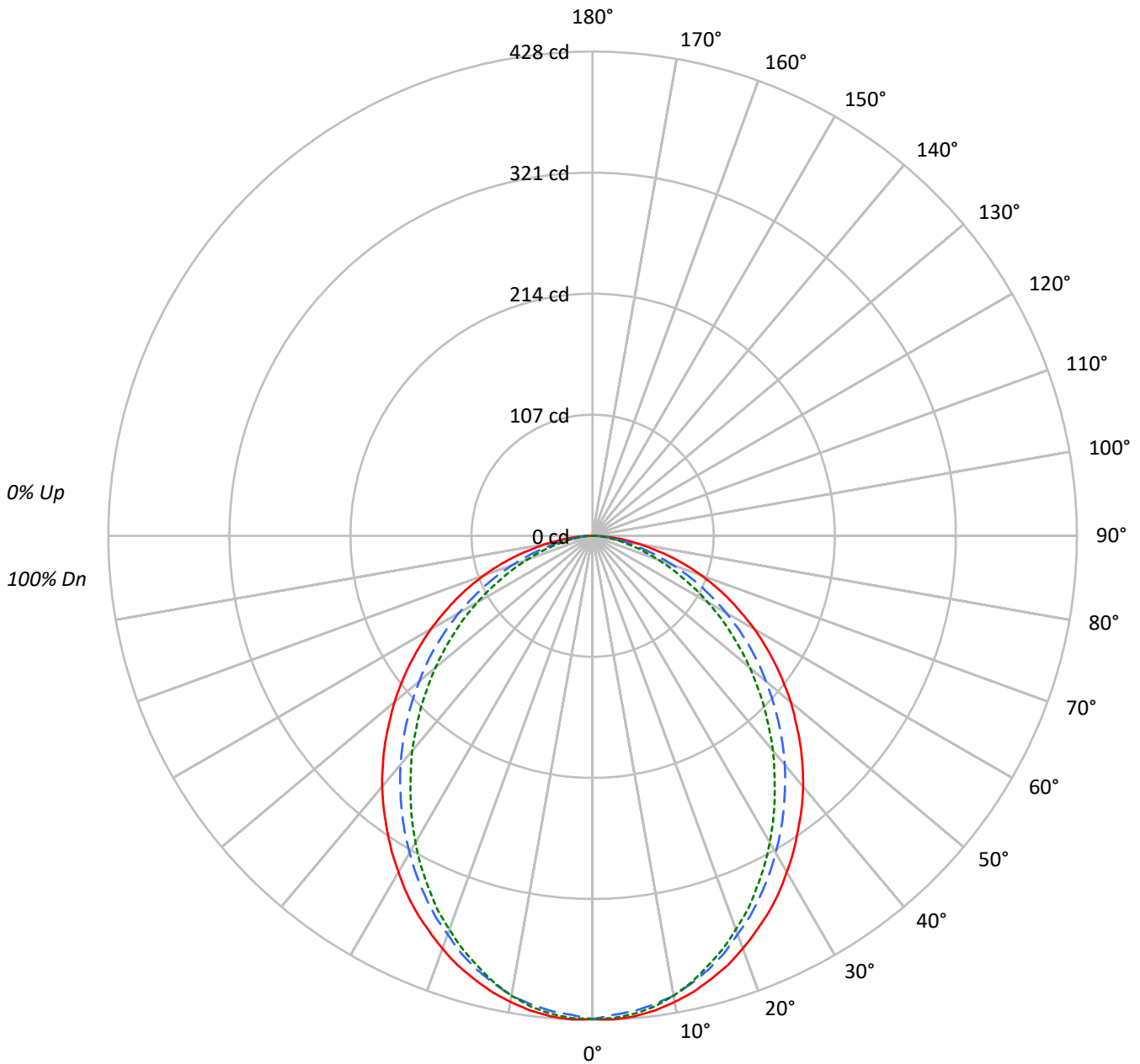
Lumens per Lamp: N/A
Luminaire Lumens: 1009.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

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°	3302	3302	3302
5°	3309	3272	3291
10°	3284	3241	3241
15°	3245	3175	3149
20°	3195	3083	3046
25°	3136	2993	2927
30°	3064	2888	2796
35°	2990	2779	2648
40°	2921	2666	2504
45°	2835	2539	2345
50°	2751	2402	2180
55°	2653	2270	2004
60°	2553	2109	1815
65°	2437	1924	1599
70°	2306	1691	1379
75°	2121	1425	1147
80°	1865	1122	966
85°	1570	922	860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	4.0
10°-20°	112.3	11.1
20°-30°	162.9	16.1
30°-40°	185.6	18.4
40°-50°	180.9	17.9
50°-60°	152.2	15.1
60°-70°	106.7	10.6
70°-80°	54.7	5.4
80°-90°	13.6	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°	315.4	31.3
0°-40°	500.9	49.6
0°-60°	834.0	82.7
0°-90°	1009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	427	427	427	427	427	
5°	426	425	422	425	424	40
15°	406	404	397	396	394	114
25°	368	363	351	347	343	169
35°	317	309	294	285	281	198
45°	259	250	232	219	214	200
55°	197	186	168	154	149	176
65°	133	122	105	92	87	132
75°	71	61	48	41	38	75
85°	18	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°	427.1	427.1	427.1	427.1	427.1
2.5°	428.0	427.1	423.9	427.1	426.7
5°	426.4	425.2	421.6	424.8	424.1
7.5°	423.2	421.9	417.7	420.3	419.7
10°	418.4	417.4	412.8	413.9	412.8
12.5°	412.8	411.5	405.1	405.7	404.2
15°	405.5	403.5	396.7	396.4	393.5
17.5°	397.7	394.8	386.7	385.1	382.9
20°	388.3	385.1	374.8	373.2	370.3
22.5°	378.0	374.8	363.9	360.3	358.0
25°	367.7	362.8	350.9	346.7	343.2
27.5°	356.1	350.3	337.7	332.3	328.7
30°	343.2	337.1	323.5	316.2	313.2
32.5°	330.6	323.2	309.3	301.0	297.1
35°	316.8	309.0	294.5	285.2	280.6
37.5°	303.5	294.1	279.3	268.4	263.8
40°	289.4	279.7	264.2	251.9	248.1
42.5°	274.5	264.5	248.3	236.8	230.6
45°	259.3	250.0	232.2	219.3	214.5
47.5°	243.5	233.9	216.1	202.9	197.4
50°	228.7	218.0	199.7	186.1	181.3
52.5°	212.5	201.6	184.5	169.6	164.8
55°	196.8	186.4	168.4	153.9	148.7
57.5°	180.6	169.6	152.3	138.0	133.5
60°	165.1	153.9	136.4	122.2	117.4
62.5°	148.7	138.0	120.3	107.4	102.6
65°	133.2	122.2	105.2	92.2	87.4
67.5°	117.7	106.8	90.3	78.1	74.3
70°	102.0	90.9	74.8	64.8	61.0
72.5°	86.5	75.8	61.0	51.9	49.7
75°	71.0	61.3	47.7	40.7	38.4
77.5°	55.1	47.4	36.1	30.7	28.7
80°	41.9	34.2	25.2	22.3	21.7
82.5°	29.0	22.3	16.8	15.7	15.5
85°	17.7	11.9	10.4	10.0	9.7
87.5°	7.5	5.1	4.8	4.8	4.5
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)