

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: P888069

Luminaire Tested: **DPT5-4F021-85V60-A-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: P888069
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: DPT5-4F021-85V60-A-XX-UDD_5000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

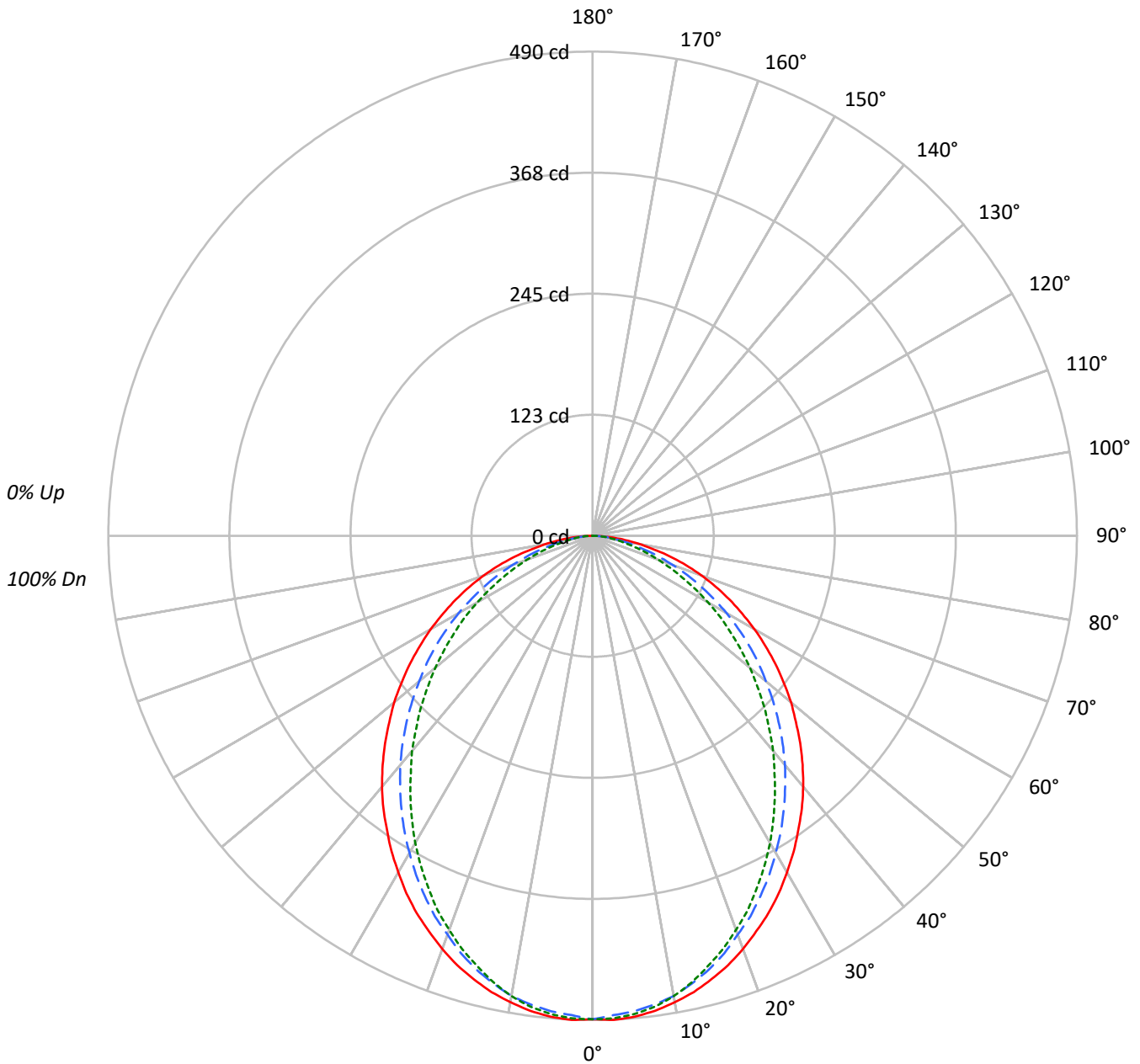
Lumens per Lamp: N/A
Luminaire Lumens: 1156.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 11.4
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				20				
RC	80				70				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			100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72			72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61			61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53			53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46			46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41			41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36			36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33			33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29			29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27			27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8188	8188	8188
5°	8207	8113	8162
10°	8144	8037	8037
15°	8049	7874	7811
20°	7923	7647	7556
25°	7777	7422	7260
30°	7598	7163	6935
35°	7413	6892	6568
40°	7241	6610	6208
45°	7031	6295	5817
50°	6821	5956	5407
55°	6579	5631	4971
60°	6332	5231	4501
65°	6046	4771	3964
70°	5715	4193	3420
75°	5256	3537	2845
80°	4635	2785	2390
85°	3898	2285	2131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	4.0
10°-20°	128.7	11.1
20°-30°	186.6	16.1
30°-40°	212.6	18.4
40°-50°	207.2	17.9
50°-60°	174.4	15.1
60°-70°	122.2	10.6
70°-80°	62.7	5.4
80°-90°	15.6	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°	361.3	31.3
0°-40°	573.9	49.6
0°-60°	955.5	82.7
0°-90°	1156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	489	487	483	487	486	46
15°	465	462	454	454	451	131
25°	421	416	402	397	393	194
35°	363	354	337	327	322	227
45°	297	286	266	251	246	229
55°	226	214	193	176	170	202
65°	153	140	120	106	100	151
75°	81	70	55	47	44	86
85°	20	14	12	11	11	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	489.3	489.3	489.3	489.3	489.3
2.5°	490.4	489.3	485.6	489.3	488.9
5°	488.6	487.1	483.0	486.6	485.9
7.5°	484.9	483.3	478.5	481.5	480.8
10°	479.3	478.2	473.0	474.2	473.0
12.5°	473.0	471.5	464.1	464.8	463.1
15°	464.6	462.3	454.5	454.1	450.9
17.5°	455.7	452.4	443.0	441.3	438.7
20°	444.9	441.3	429.4	427.5	424.3
22.5°	433.1	429.4	416.9	412.8	410.1
25°	421.2	415.7	402.0	397.2	393.2
27.5°	408.0	401.3	386.9	380.7	376.6
30°	393.2	386.2	370.7	362.2	358.9
32.5°	378.7	370.3	354.4	344.8	340.4
35°	362.9	354.1	337.4	326.7	321.5
37.5°	347.8	337.0	320.0	307.5	302.2
40°	331.5	320.4	302.6	288.6	284.2
42.5°	314.4	303.0	284.5	271.3	264.2
45°	297.1	286.5	266.0	251.3	245.8
47.5°	278.9	268.0	247.5	232.5	226.1
50°	262.0	249.8	228.8	213.3	207.7
52.5°	243.5	231.0	211.3	194.3	188.8
55°	225.5	213.6	193.0	176.3	170.4
57.5°	207.0	194.3	174.5	158.1	153.0
60°	189.2	176.3	156.3	140.0	134.5
62.5°	170.4	158.1	137.9	123.0	117.5
65°	152.7	140.0	120.5	105.6	100.1
67.5°	134.8	122.4	103.4	89.5	85.1
70°	116.8	104.2	85.7	74.2	69.9
72.5°	99.1	86.9	69.9	59.5	57.0
75°	81.3	70.2	54.7	46.6	44.0
77.5°	63.1	54.3	41.3	35.2	32.9
80°	48.1	39.2	28.9	25.5	24.8
82.5°	33.2	25.5	19.3	18.0	17.8
85°	20.3	13.6	11.9	11.4	11.1
87.5°	8.6	5.9	5.6	5.6	5.1
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)