

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: P888026

Luminaire Tested: **DPT5-4F021-109V60-A-XX-UDD_6500K**

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: P888026
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: DPT5-4F021-109V60-A-XX-UDD_6500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

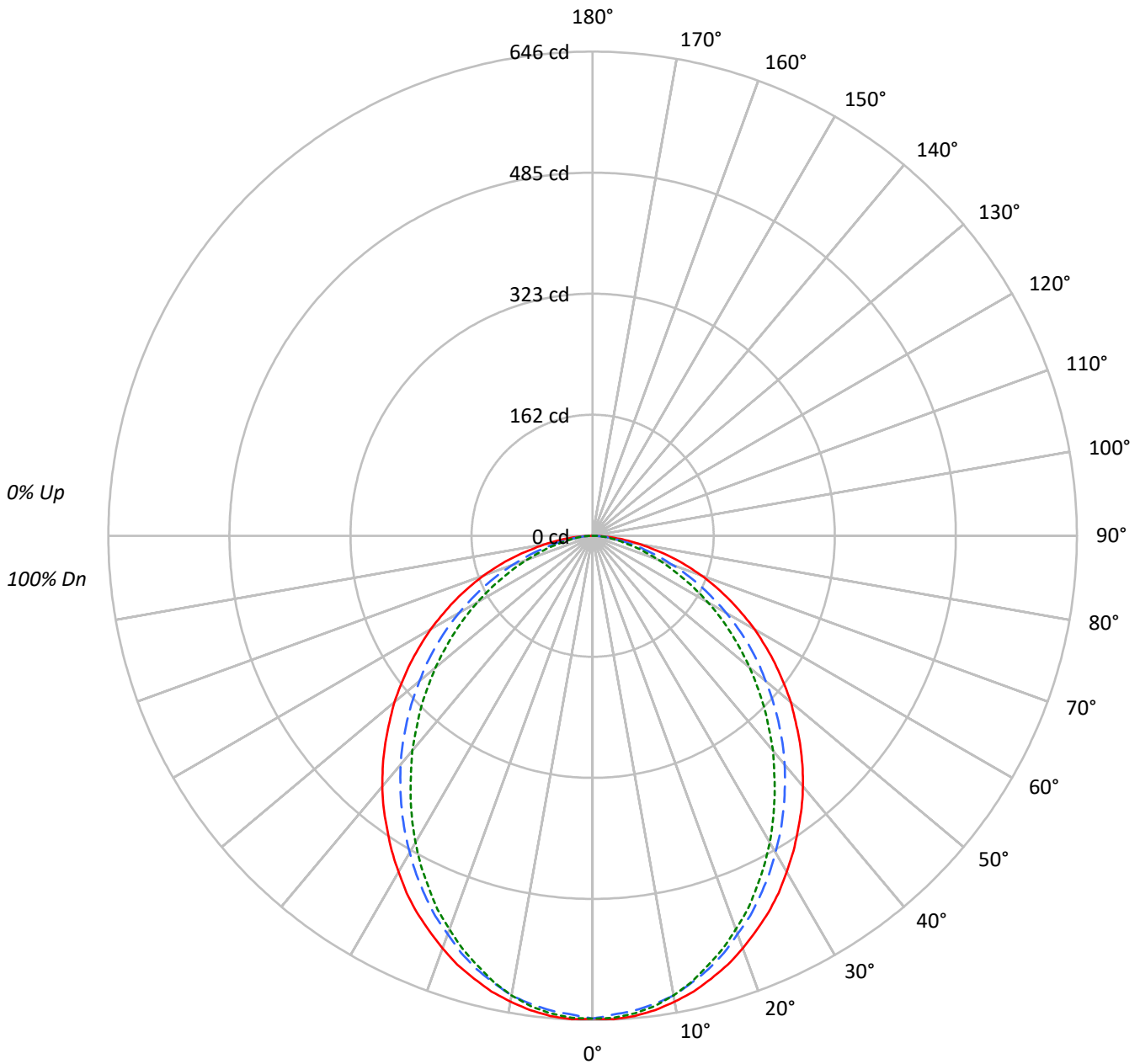
Lumens per Lamp: N/A
Luminaire Lumens: 1522.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	10780	10780	10780
5°	10804	10682	10745
10°	10724	10583	10583
15°	10597	10367	10284
20°	10430	10068	9947
25°	10240	9773	9559
30°	10003	9429	9130
35°	9761	9074	8647
40°	9535	8705	8174
45°	9258	8290	7658
50°	8981	7841	7120
55°	8659	7413	6547
60°	8337	6888	5927
65°	7959	6284	5219
70°	7525	5519	4501
75°	6918	4655	3743
80°	6100	3662	3151
85°	5126	2995	2803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	4.0
10°-20°	169.4	11.1
20°-30°	245.7	16.1
30°-40°	279.9	18.4
40°-50°	272.8	17.9
50°-60°	229.6	15.1
60°-70°	160.9	10.6
70°-80°	82.5	5.4
80°-90°	20.6	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°	475.7	31.3
0°-40°	755.6	49.6
0°-60°	1258.1	82.7
0°-90°	1522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	643	641	636	641	640	61
15°	612	609	598	598	594	172
25°	555	547	529	523	518	255
35°	478	466	444	430	423	299
45°	391	377	350	331	324	302
55°	297	281	254	232	224	265
65°	201	184	159	139	132	199
75°	107	92	72	61	58	113
85°	27	18	16	15	15	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.2	644.2	644.2	644.2	644.2
2.5°	645.7	644.2	639.4	644.2	643.7
5°	643.2	641.3	635.9	640.7	639.7
7.5°	638.4	636.4	630.1	633.9	633.0
10°	631.1	629.6	622.8	624.3	622.8
12.5°	622.8	620.8	611.0	612.0	609.7
15°	611.7	608.7	598.4	597.9	593.6
17.5°	599.9	595.6	583.3	581.0	577.5
20°	585.7	581.0	565.4	562.9	558.6
22.5°	570.2	565.4	548.9	543.5	540.0
25°	554.6	547.3	529.3	523.0	517.7
27.5°	537.2	528.3	509.4	501.2	495.9
30°	517.7	508.5	488.0	476.9	472.5
32.5°	498.7	487.6	466.6	454.0	448.2
35°	477.8	466.2	444.2	430.1	423.3
37.5°	457.9	443.7	421.3	404.9	397.9
40°	436.5	421.8	398.5	380.0	374.2
42.5°	414.0	398.9	374.6	357.1	347.8
45°	391.2	377.2	350.3	330.9	323.6
47.5°	367.2	352.8	325.9	306.1	297.7
50°	345.0	328.9	301.2	280.8	273.5
52.5°	320.6	304.2	278.3	255.9	248.6
55°	296.8	281.2	254.1	232.1	224.4
57.5°	272.5	255.9	229.7	208.2	201.4
60°	249.1	232.1	205.8	184.4	177.1
62.5°	224.4	208.2	181.5	162.0	154.7
65°	201.0	184.4	158.7	139.1	131.8
67.5°	177.5	161.1	136.2	117.8	112.0
70°	153.8	137.2	112.8	97.7	92.0
72.5°	130.4	114.4	92.0	78.3	75.0
75°	107.0	92.4	72.0	61.4	57.9
77.5°	83.1	71.5	54.4	46.3	43.3
80°	63.3	51.6	38.0	33.6	32.7
82.5°	43.8	33.6	25.4	23.7	23.4
85°	26.7	18.0	15.6	15.1	14.6
87.5°	11.3	7.8	7.3	7.3	6.8
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)