

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: P888079

Luminaire Tested: **DPT5-4F029-109V60-A-XX-UDD_4500K**

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: P888079
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: DPT5-4F029-109V60-A-XX-UDD_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

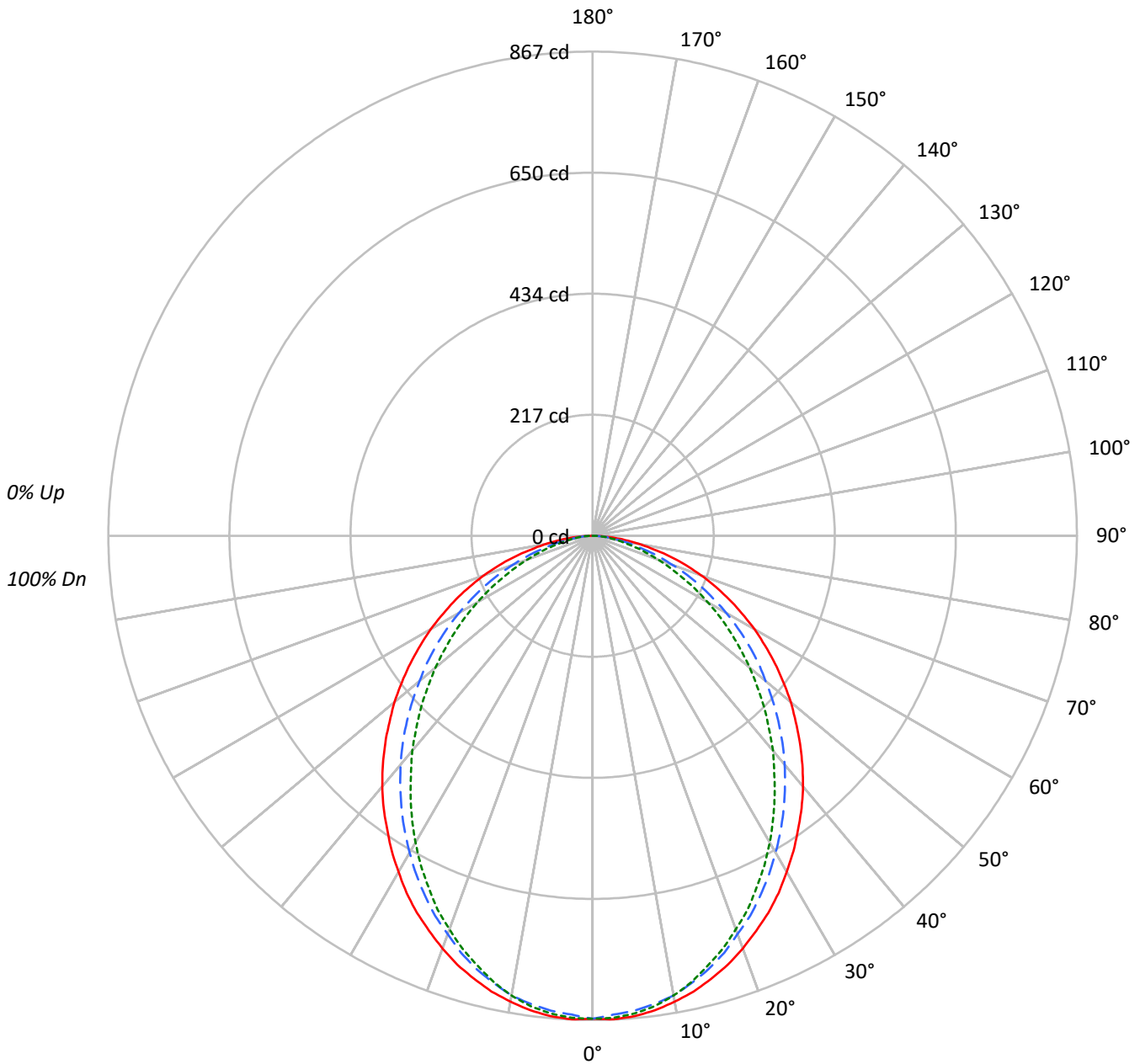
Lumens per Lamp: N/A
Luminaire Lumens: 2043.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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				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			
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°	10299	10299	10299
5°	10322	10205	10266
10°	10244	10109	10109
15°	10123	9903	9824
20°	9966	9618	9503
25°	9783	9337	9132
30°	9556	9009	8722
35°	9325	8670	8261
40°	9109	8316	7809
45°	8844	7919	7315
50°	8578	7491	6802
55°	8274	7080	6254
60°	7965	6579	5662
65°	7603	6002	4985
70°	7187	5272	4300
75°	6612	4450	3580
80°	5823	3498	3011
85°	4906	2870	2678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	4.0
10°-20°	227.4	11.1
20°-30°	329.8	16.1
30°-40°	375.7	18.4
40°-50°	366.2	17.9
50°-60°	308.2	15.1
60°-70°	216.0	10.6
70°-80°	110.7	5.4
80°-90°	27.6	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°	638.6	31.3
0°-40°	1014.3	49.6
0°-60°	1688.7	82.7
0°-90°	2043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	863	861	854	860	859	82
15°	821	817	803	803	797	231
25°	744	735	710	702	695	343
35°	641	626	596	577	568	402
45°	525	506	470	444	434	405
55°	398	378	341	312	301	356
65°	270	248	213	187	177	267
75°	144	124	97	82	78	152
85°	36	24	21	20	20	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.8	864.8	864.8	864.8	864.8
2.5°	866.7	864.8	858.2	864.8	864.0
5°	863.4	860.9	853.6	860.0	858.7
7.5°	856.9	854.2	845.7	850.9	849.7
10°	847.1	845.1	835.9	838.0	835.9
12.5°	835.9	833.3	820.2	821.5	818.4
15°	821.0	817.0	803.2	802.6	796.8
17.5°	805.3	799.5	783.0	779.8	775.2
20°	786.3	779.8	758.9	755.6	749.8
22.5°	765.4	758.9	736.8	729.6	724.8
25°	744.5	734.6	710.5	702.1	694.9
27.5°	721.1	709.2	683.8	672.7	665.6
30°	694.9	682.6	655.1	640.2	634.2
32.5°	669.3	654.4	626.3	609.4	601.6
35°	641.4	625.7	596.3	577.4	568.2
37.5°	614.6	595.6	565.5	543.5	534.1
40°	585.9	566.2	534.9	510.0	502.3
42.5°	555.7	535.5	502.8	479.4	466.9
45°	525.1	506.3	470.2	444.1	434.3
47.5°	493.0	473.6	437.5	410.8	399.7
50°	463.0	441.5	404.3	376.9	367.1
52.5°	430.3	408.3	373.5	343.5	333.6
55°	398.5	377.5	341.0	311.6	301.2
57.5°	365.7	343.5	308.3	279.5	270.4
60°	334.4	311.6	276.2	247.5	237.7
62.5°	301.2	279.5	243.6	217.5	207.6
65°	269.8	247.5	213.0	186.7	176.9
67.5°	238.3	216.3	182.8	158.1	150.3
70°	206.4	184.1	151.4	131.2	123.5
72.5°	175.1	153.5	123.5	105.2	100.7
75°	143.7	124.1	96.7	82.4	77.8
77.5°	111.6	95.9	73.1	62.1	58.2
80°	84.9	69.3	51.0	45.1	43.9
82.5°	58.8	45.1	34.0	31.9	31.4
85°	35.9	24.1	21.0	20.2	19.6
87.5°	15.1	10.4	9.8	9.8	9.1
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)