

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: P888078

Luminaire Tested: **DPT5-4F029-109V60-A-XX-UDD_4000K**

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: P888078
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_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

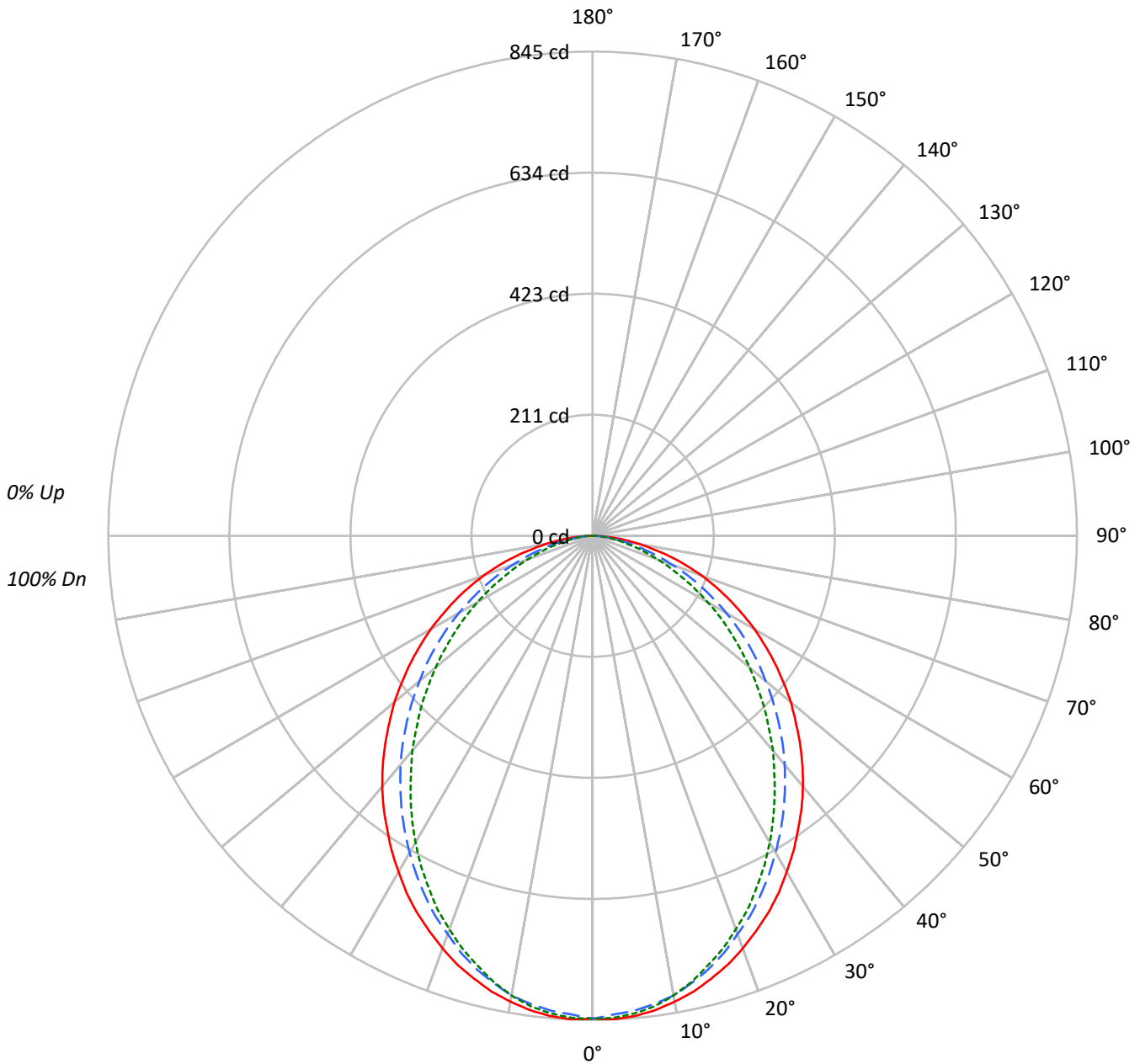
Lumens per Lamp: N/A
Luminaire Lumens: 1991.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

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									
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°	10037	10037	10037
5°	10060	9945	10004
10°	9983	9852	9852
15°	9865	9652	9574
20°	9711	9374	9261
25°	9534	9100	8899
30°	9313	8779	8500
35°	9087	8449	8050
40°	8877	8105	7610
45°	8618	7717	7130
50°	8360	7300	6627
55°	8063	6902	6094
60°	7763	6412	5517
65°	7409	5850	4858
70°	7006	5140	4189
75°	6442	4335	3488
80°	5679	3409	2929
85°	4769	2788	2610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	4.0
10°-20°	221.6	11.1
20°-30°	321.4	16.1
30°-40°	366.2	18.4
40°-50°	356.9	17.9
50°-60°	300.4	15.1
60°-70°	210.5	10.6
70°-80°	107.9	5.4
80°-90°	26.9	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°	622.3	31.3
0°-40°	988.5	49.6
0°-60°	1645.7	82.7
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	842	839	832	838	837	80
15°	800	796	783	782	776	226
25°	726	716	692	684	677	334
35°	625	610	581	563	554	391
45°	512	493	458	433	423	395
55°	388	368	332	304	294	347
65°	263	241	208	182	172	260
75°	140	121	94	80	76	148
85°	35	24	20	20	19	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.8	842.8	842.8	842.8	842.8
2.5°	844.6	842.8	836.4	842.8	842.0
5°	841.5	839.0	831.9	838.1	836.8
7.5°	835.1	832.5	824.2	829.3	828.1
10°	825.5	823.6	814.7	816.7	814.7
12.5°	814.7	812.1	799.3	800.6	797.5
15°	800.1	796.2	782.8	782.2	776.5
17.5°	784.8	779.1	763.1	760.0	755.5
20°	766.2	760.0	739.6	736.4	730.7
22.5°	745.9	739.6	718.1	711.0	706.4
25°	725.5	715.9	692.5	684.2	677.2
27.5°	702.7	691.2	666.4	655.6	648.7
30°	677.2	665.2	638.4	623.9	618.1
32.5°	652.3	637.8	610.4	593.9	586.3
35°	625.0	609.8	581.1	562.7	553.7
37.5°	598.9	580.4	551.1	529.6	520.5
40°	571.0	551.8	521.3	497.1	489.5
42.5°	541.6	521.8	490.0	467.2	455.0
45°	511.7	493.4	458.2	432.8	423.3
47.5°	480.4	461.5	426.3	400.4	389.5
50°	451.2	430.2	394.0	367.3	357.7
52.5°	419.4	397.9	364.0	334.7	325.2
55°	388.3	367.9	332.4	303.7	293.5
57.5°	356.4	334.7	300.5	272.4	263.5
60°	325.9	303.7	269.2	241.2	231.6
62.5°	293.5	272.4	237.4	211.9	202.4
65°	262.9	241.2	207.6	181.9	172.4
67.5°	232.2	210.7	178.2	154.1	146.5
70°	201.2	179.5	147.6	127.9	120.3
72.5°	170.6	149.6	120.3	102.5	98.1
75°	140.0	120.9	94.2	80.3	75.8
77.5°	108.7	93.5	71.2	60.6	56.7
80°	82.8	67.5	49.7	43.9	42.7
82.5°	57.3	43.9	33.2	31.1	30.6
85°	34.9	23.5	20.4	19.7	19.1
87.5°	14.8	10.2	9.6	9.6	8.9
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)