

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: P888354

Luminaire Tested: **DPT5-4F029-109V60-F-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: P888354
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-F-XX-UDD_4500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

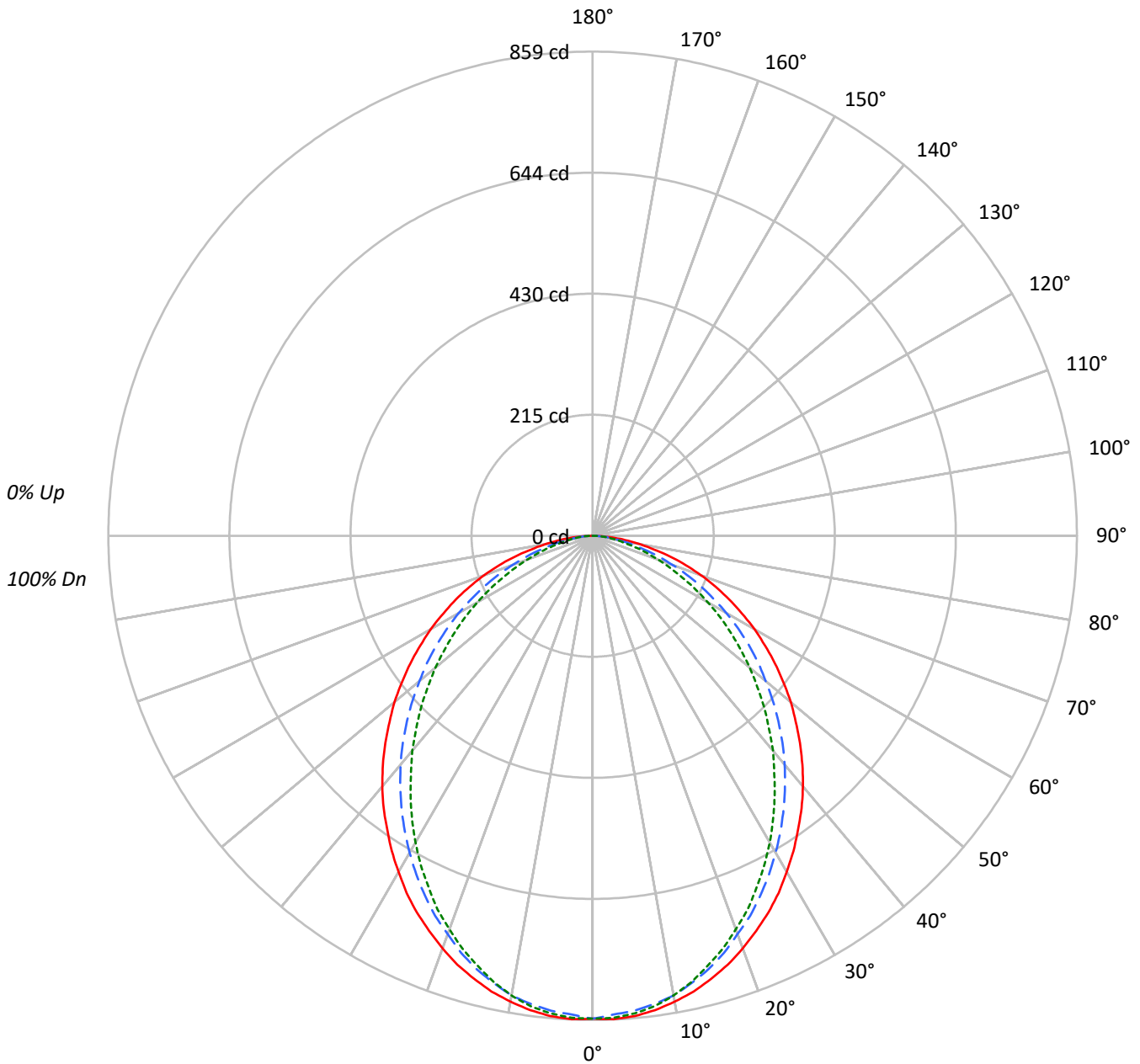
Lumens per Lamp: N/A
Luminaire Lumens: 2024.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

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°	10203	10203	10203
5°	10226	10110	10170
10°	10149	10016	10016
15°	10029	9811	9733
20°	9872	9528	9414
25°	9691	9250	9046
30°	9467	8925	8640
35°	9238	8588	8184
40°	9023	8238	7736
45°	8762	7845	7247
50°	8499	7420	6739
55°	8198	7016	6196
60°	7891	6519	5609
65°	7533	5946	4937
70°	7121	5223	4259
75°	6548	4408	3548
80°	5768	3464	2977
85°	4851	2842	2651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	4.0
10°-20°	225.3	11.1
20°-30°	326.7	16.1
30°-40°	372.2	18.4
40°-50°	362.8	17.9
50°-60°	305.3	15.1
60°-70°	214.0	10.6
70°-80°	109.7	5.4
80°-90°	27.3	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°	632.6	31.3
0°-40°	1004.9	49.6
0°-60°	1673.0	82.7
0°-90°	2024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	855	853	846	852	851	81
15°	813	809	796	795	789	229
25°	738	728	704	696	688	339
35°	635	620	591	572	563	398
45°	520	502	466	440	430	401
55°	395	374	338	309	298	353
65°	267	245	211	185	175	265
75°	142	123	96	82	77	150
85°	36	24	21	20	19	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.7	856.7	856.7	856.7	856.7
2.5°	858.6	856.7	850.2	856.7	856.0
5°	855.4	852.9	845.7	852.0	850.7
7.5°	848.9	846.3	837.9	843.0	841.8
10°	839.2	837.3	828.2	830.2	828.2
12.5°	828.2	825.5	812.6	813.9	810.7
15°	813.4	809.4	795.7	795.1	789.4
17.5°	797.8	792.0	775.7	772.6	768.0
20°	778.9	772.6	751.8	748.6	742.8
22.5°	758.3	751.8	730.0	722.8	718.1
25°	737.5	727.8	703.9	695.5	688.4
27.5°	714.4	702.6	677.4	666.5	659.4
30°	688.4	676.2	649.0	634.2	628.3
32.5°	663.1	648.4	620.5	603.7	596.0
35°	635.4	619.9	590.7	572.0	562.9
37.5°	608.9	590.0	560.3	538.4	529.2
40°	580.4	561.0	529.9	505.3	497.6
42.5°	550.5	530.5	498.1	474.9	462.6
45°	520.2	501.6	465.8	440.0	430.3
47.5°	488.4	469.2	433.4	407.0	396.0
50°	458.7	437.4	400.5	373.4	363.7
52.5°	426.3	404.5	370.0	340.3	330.5
55°	394.8	374.0	337.9	308.7	298.4
57.5°	362.3	340.3	305.5	276.9	267.9
60°	331.3	308.7	273.7	245.2	235.5
62.5°	298.4	276.9	241.4	215.4	205.7
65°	267.3	245.2	211.0	185.0	175.2
67.5°	236.1	214.2	181.1	156.6	148.9
70°	204.5	182.4	150.0	130.0	122.3
72.5°	173.4	152.1	122.3	104.2	99.7
75°	142.3	122.9	95.8	81.6	77.1
77.5°	110.5	95.1	72.4	61.6	57.6
80°	84.1	68.7	50.5	44.6	43.4
82.5°	58.2	44.6	33.7	31.6	31.1
85°	35.5	23.9	20.8	20.0	19.4
87.5°	15.0	10.3	9.7	9.7	9.0
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)