

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: P888347

Luminaire Tested: **DPT5-4F029-109S30-F-XX-UDD**

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: P888347
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: DPT5-4F029-109S30-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

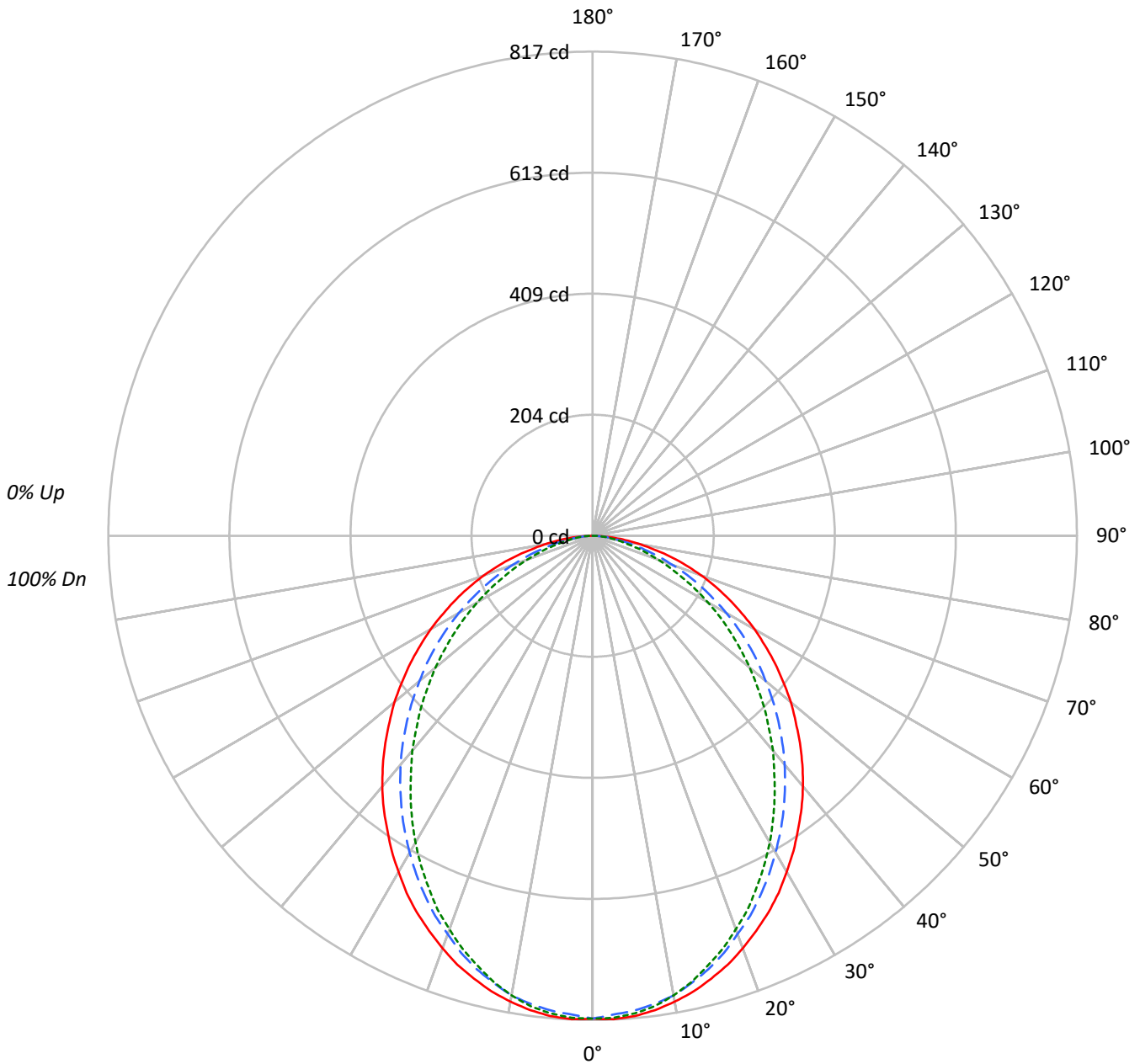
Lumens per Lamp: N/A
Luminaire Lumens: 1925.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

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°	9704	9704	9704
5°	9727	9615	9673
10°	9652	9525	9525
15°	9538	9331	9257
20°	9389	9062	8954
25°	9218	8798	8605
30°	9005	8488	8218
35°	8786	8169	7784
40°	8582	7836	7358
45°	8332	7461	6892
50°	8084	7057	6409
55°	7795	6671	5893
60°	7505	6200	5336
65°	7163	5656	4698
70°	6773	4969	4050
75°	6230	4192	3373
80°	5487	3299	2833
85°	4619	2692	2528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	4.0
10°-20°	214.3	11.1
20°-30°	310.7	16.1
30°-40°	354.0	18.4
40°-50°	345.0	17.9
50°-60°	290.4	15.1
60°-70°	203.5	10.6
70°-80°	104.3	5.4
80°-90°	26.0	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°	601.7	31.3
0°-40°	955.7	49.6
0°-60°	1591.1	82.7
0°-90°	1925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	814	811	804	810	809	77
15°	774	770	757	756	751	218
25°	702	692	670	662	655	323
35°	604	590	562	544	535	378
45°	495	477	443	418	409	382
55°	375	356	321	294	284	336
65°	254	233	201	176	167	252
75°	135	117	91	78	73	143
85°	34	23	20	19	18	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>814.8</i>	814.8	814.8	814.8	814.8
2.5°	<i>816.6</i>	<i>814.8</i>	<i>808.6</i>	<i>814.8</i>	<i>814.1</i>
5°	<i>813.6</i>	811.2	804.3	810.4	809.1
7.5°	<i>807.4</i>	804.9	796.9	801.8	800.7
10°	<i>798.1</i>	796.3	787.6	789.6	787.6
12.5°	<i>787.6</i>	785.1	772.8	774.1	771.1
15°	<i>773.6</i>	769.8	756.8	756.3	750.8
17.5°	<i>758.8</i>	753.3	737.8	734.8	730.5
20°	<i>740.8</i>	734.8	715.0	712.0	706.5
22.5°	<i>721.2</i>	715.0	694.3	687.4	683.0
25°	<i>701.5</i>	692.2	669.5	661.5	654.8
27.5°	<i>679.4</i>	668.2	644.3	633.9	627.1
30°	<i>654.8</i>	643.1	617.2	603.2	597.6
32.5°	<i>630.7</i>	616.6	590.2	574.2	566.9
35°	<i>604.3</i>	589.6	561.9	544.0	535.4
37.5°	<i>579.1</i>	561.2	532.9	512.1	503.3
40°	<i>552.0</i>	533.5	504.0	480.6	473.3
42.5°	<i>523.6</i>	504.5	473.7	451.7	439.9
45°	<i>494.7</i>	477.0	443.0	418.5	409.2
47.5°	<i>464.5</i>	446.2	412.2	387.1	376.6
50°	<i>436.3</i>	416.0	380.9	355.1	345.9
52.5°	<i>405.5</i>	384.7	351.9	323.6	314.4
55°	<i>375.4</i>	355.7	321.3	293.6	283.8
57.5°	<i>344.6</i>	323.6	290.5	263.3	254.8
60°	<i>315.1</i>	293.6	260.3	233.2	224.0
62.5°	<i>283.8</i>	263.3	229.6	204.9	195.7
65°	<i>254.2</i>	233.2	200.7	175.9	166.7
67.5°	<i>224.5</i>	203.8	172.3	149.0	141.7
70°	<i>194.5</i>	173.5	142.7	123.6	116.3
72.5°	<i>164.9</i>	144.6	116.3	99.1	94.9
75°	<i>135.4</i>	116.9	91.1	77.6	73.3
77.5°	<i>105.1</i>	90.4	68.8	58.6	54.8
80°	<i>80.0</i>	65.3	48.1	42.5	41.3
82.5°	<i>55.4</i>	42.5	32.1	30.0	29.6
85°	<i>33.8</i>	22.7	19.7	19.1	18.5
87.5°	<i>14.3</i>	9.8	9.2	9.2	8.6
90°	<i>0.0</i>	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)