

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: P888355

Luminaire Tested: **DPT5-4F029-109V60-F-XX-UDD_5000K**

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: P888355
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_5000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

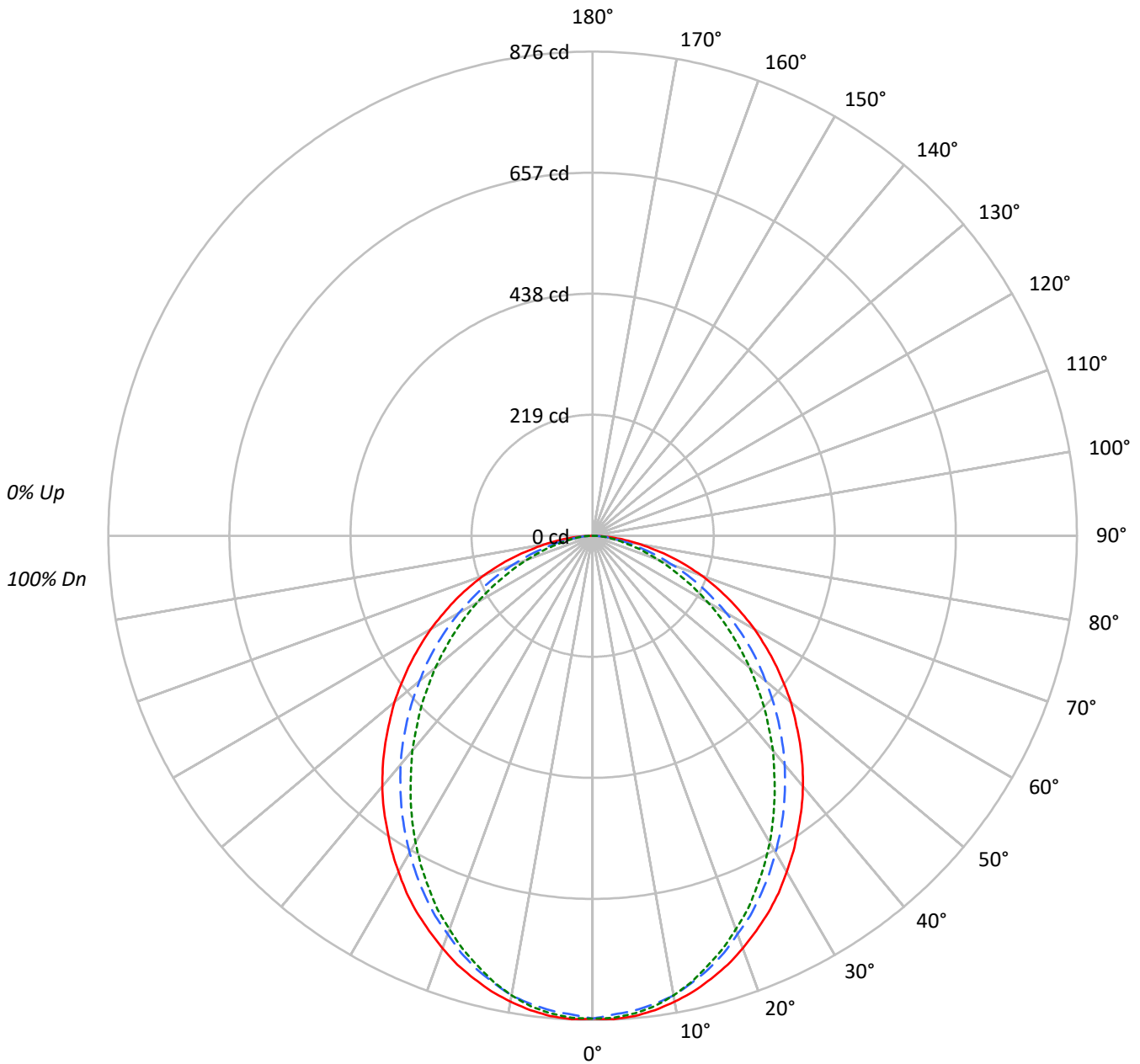
Lumens per Lamp: N/A
Luminaire Lumens: 2064.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

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°	10404	10404	10404
5°	10428	10310	10371
10°	10349	10213	10213
15°	10228	10006	9925
20°	10067	9717	9601
25°	9883	9432	9226
30°	9655	9101	8811
35°	9421	8758	8345
40°	9202	8402	7888
45°	8935	8000	7391
50°	8667	7567	6872
55°	8359	7153	6318
60°	8046	6648	5719
65°	7682	6064	5036
70°	7264	5328	4342
75°	6681	4496	3617
80°	5885	3532	3038
85°	4947	2897	2706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	4.0
10°-20°	229.8	11.1
20°-30°	333.2	16.1
30°-40°	379.6	18.4
40°-50°	370.0	17.9
50°-60°	311.4	15.1
60°-70°	218.2	10.6
70°-80°	111.9	5.4
80°-90°	27.9	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°	645.2	31.3
0°-40°	1024.7	49.6
0°-60°	1706.1	82.7
0°-90°	2064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	872	870	862	869	868	83
15°	830	825	812	811	805	234
25°	752	742	718	709	702	346
35°	648	632	602	583	574	406
45°	530	512	475	449	439	409
55°	403	381	344	315	304	360
65°	273	250	215	189	179	270
75°	145	125	98	83	79	153
85°	36	24	21	20	20	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.6	873.6	873.6	873.6	873.6
2.5°	875.6	873.6	867.0	873.6	872.9
5°	872.3	869.7	862.4	868.9	867.5
7.5°	865.7	863.0	854.4	859.7	858.5
10°	855.8	853.8	844.5	846.6	844.5
12.5°	844.5	841.8	828.6	830.0	826.8
15°	829.5	825.4	811.5	810.9	805.0
17.5°	813.6	807.7	791.0	787.9	783.2
20°	794.3	787.9	766.7	763.4	757.5
22.5°	773.3	766.7	744.4	737.1	732.3
25°	752.1	742.2	717.8	709.3	702.1
27.5°	728.5	716.5	690.8	679.7	672.4
30°	702.1	689.6	661.8	646.7	640.7
32.5°	676.2	661.2	632.8	615.6	607.8
35°	648.0	632.2	602.4	583.3	574.0
37.5°	620.9	601.7	571.3	549.1	539.6
40°	591.9	572.1	540.4	515.3	507.4
42.5°	561.4	541.0	507.9	484.3	471.7
45°	530.5	511.5	475.0	448.7	438.8
47.5°	498.0	478.4	442.0	415.0	403.8
50°	467.8	446.0	408.4	380.8	370.9
52.5°	434.7	412.5	377.3	347.0	337.1
55°	402.6	381.4	344.5	314.8	304.3
57.5°	369.5	347.0	311.5	282.4	273.2
60°	337.8	314.8	279.1	250.1	240.1
62.5°	304.3	282.4	246.1	219.7	209.8
65°	272.6	250.1	215.2	188.6	178.7
67.5°	240.7	218.5	184.7	159.7	151.9
70°	208.6	186.0	153.0	132.6	124.7
72.5°	176.9	155.1	124.7	106.2	101.7
75°	145.2	125.3	97.7	83.2	78.6
77.5°	112.7	96.9	73.8	62.8	58.7
80°	85.8	70.0	51.5	45.5	44.3
82.5°	59.4	45.5	34.4	32.2	31.7
85°	36.2	24.4	21.2	20.4	19.8
87.5°	15.3	10.5	9.9	9.9	9.2
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)