

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: P888397

Luminaire Tested: **DPT5-4F029-85V60-F-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: P888397
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: DPT5-4F029-85V60-F-XX-UDD_4000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

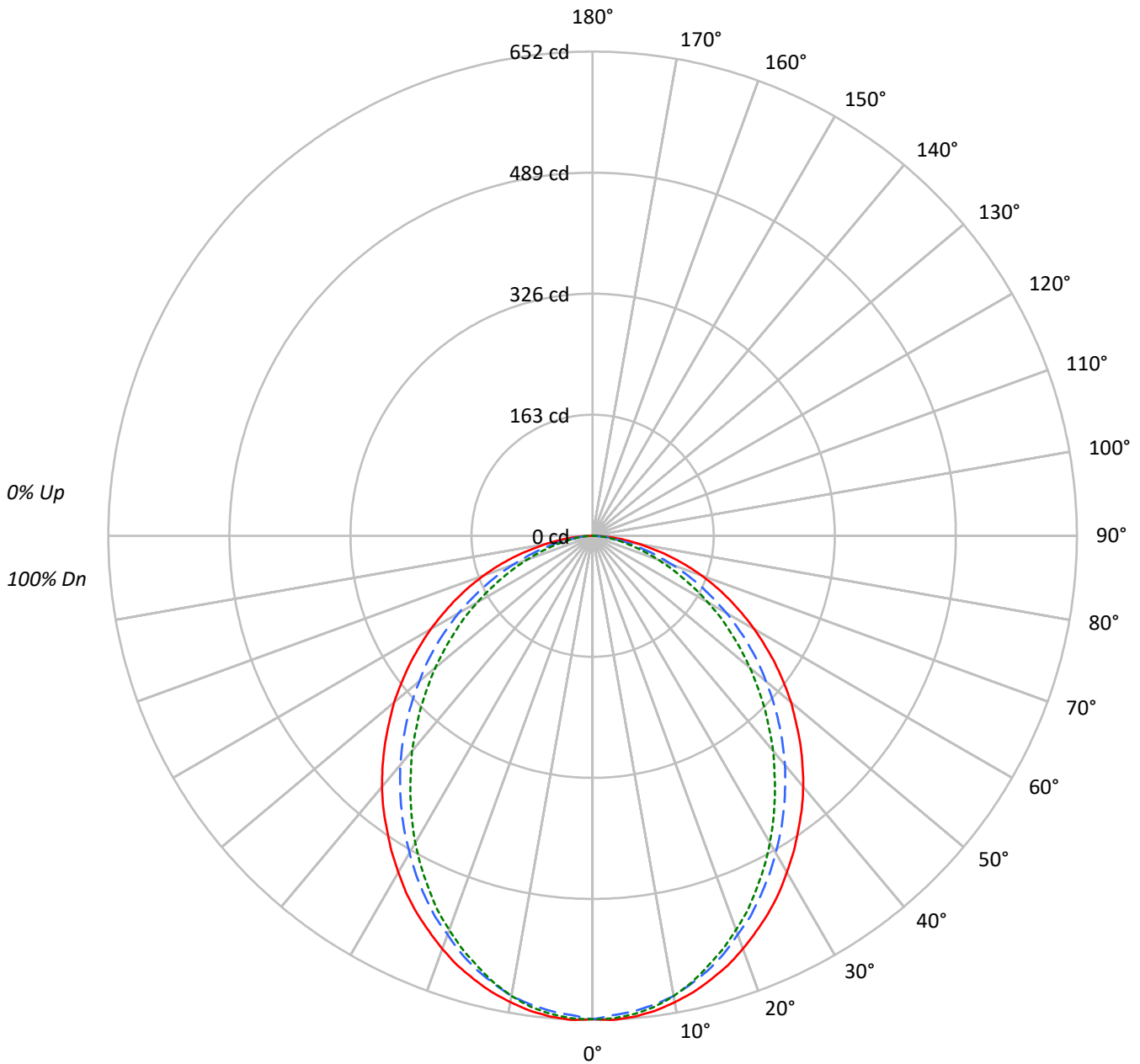
Lumens per Lamp: N/A
Luminaire Lumens: 1538.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

Input Watts (W): 16.1
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°	7753	7753	7753
5°	7771	7682	7728
10°	7712	7610	7610
15°	7621	7456	7395
20°	7502	7241	7154
25°	7364	7029	6874
30°	7194	6781	6565
35°	7019	6527	6218
40°	6858	6261	5878
45°	6658	5962	5508
50°	6459	5638	5119
55°	6229	5330	4707
60°	5995	4952	4261
65°	5723	4517	3754
70°	5411	3970	3235
75°	4979	3350	2696
80°	4383	2634	2263
85°	3689	2159	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	4.0
10°-20°	171.2	11.1
20°-30°	248.3	16.1
30°-40°	282.8	18.4
40°-50°	275.7	17.9
50°-60°	232.0	15.1
60°-70°	162.6	10.6
70°-80°	83.4	5.4
80°-90°	20.8	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°	480.7	31.3
0°-40°	763.6	49.6
0°-60°	1271.3	82.7
0°-90°	1538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	650	648	643	647	646	62
15°	618	615	605	604	600	174
25°	560	553	535	528	523	258
35°	483	471	449	435	428	302
45°	395	381	354	334	327	305
55°	300	284	257	235	227	268
65°	203	186	160	140	133	201
75°	108	93	73	62	59	114
85°	27	18	16	15	15	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.0	651.0	651.0	651.0	651.0
2.5°	652.5	651.0	646.1	651.0	650.5
5°	650.0	648.1	642.6	647.4	646.4
7.5°	645.1	643.1	636.7	640.6	639.7
10°	637.7	636.2	629.3	630.8	629.3
12.5°	629.3	627.3	617.4	618.4	616.1
15°	618.1	615.1	604.7	604.2	599.8
17.5°	606.2	601.8	589.4	587.1	583.6
20°	591.9	587.1	571.3	568.8	564.5
22.5°	576.2	571.3	554.7	549.2	545.7
25°	560.4	553.1	534.9	528.5	523.1
27.5°	542.8	533.9	514.7	506.4	501.1
30°	523.1	513.8	493.1	481.9	477.4
32.5°	503.9	492.7	471.5	458.7	452.9
35°	482.8	471.1	448.9	434.7	427.7
37.5°	462.7	448.4	425.7	409.1	402.1
40°	441.1	426.3	402.7	384.0	378.1
42.5°	418.3	403.1	378.5	360.9	351.5
45°	395.3	381.1	354.0	334.3	327.0
47.5°	371.1	356.5	329.3	309.3	300.9
50°	348.6	332.3	304.3	283.7	276.3
52.5°	324.0	307.4	281.2	258.6	251.2
55°	300.0	284.2	256.7	234.6	226.7
57.5°	275.3	258.6	232.1	210.4	203.6
60°	251.7	234.6	207.9	186.3	178.9
62.5°	226.7	210.4	183.4	163.7	156.3
65°	203.1	186.3	160.3	140.5	133.2
67.5°	179.4	162.8	137.6	119.0	113.2
70°	155.4	138.6	114.0	98.8	92.9
72.5°	131.8	115.6	92.9	79.2	75.8
75°	108.2	93.4	72.8	62.0	58.6
77.5°	84.0	72.2	55.0	46.8	43.8
80°	63.9	52.2	38.4	33.9	33.0
82.5°	44.2	33.9	25.6	24.0	23.6
85°	27.0	18.1	15.8	15.2	14.8
87.5°	11.4	7.8	7.4	7.4	6.8
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)