

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: P888379

Luminaire Tested: **DPT5-4F029-61S27-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: P888379
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: DPT5-4F029-61S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

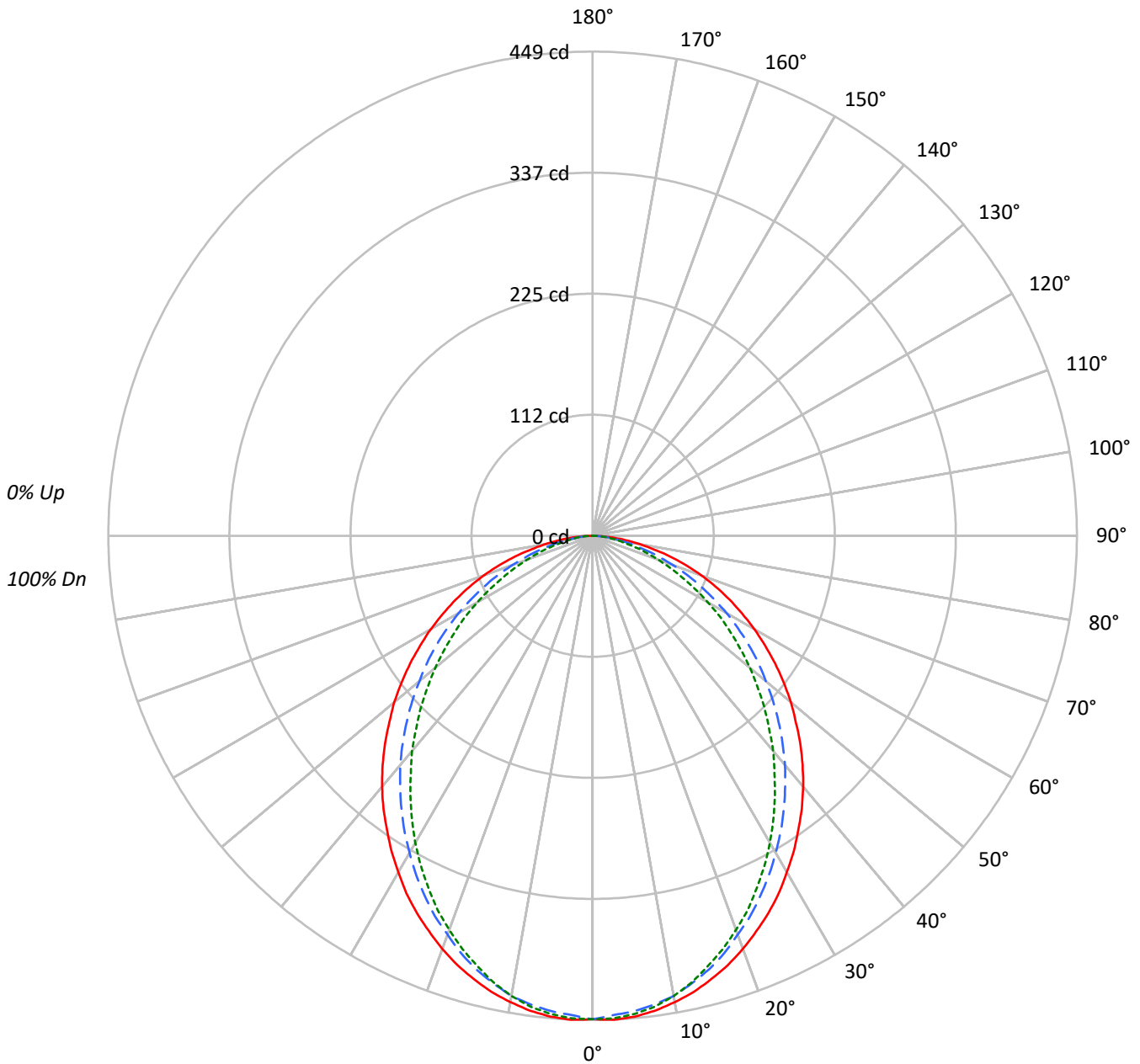
Lumens per Lamp: N/A
Luminaire Lumens: 1059.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

Input Watts (W): 11.5
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°	5339	5339	5339
5°	5351	5290	5321
10°	5310	5240	5240
15°	5248	5134	5092
20°	5166	4986	4926
25°	5071	4840	4733
30°	4953	4669	4520
35°	4834	4494	4282
40°	4722	4311	4048
45°	4585	4105	3791
50°	4447	3883	3526
55°	4288	3671	3241
60°	4128	3411	2935
65°	3942	3111	2584
70°	3726	2733	2229
75°	3428	2305	1854
80°	3018	1811	1557
85°	2542	1489	1394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	4.0
10°-20°	117.9	11.1
20°-30°	170.9	16.1
30°-40°	194.8	18.4
40°-50°	189.8	17.9
50°-60°	159.7	15.1
60°-70°	112.0	10.6
70°-80°	57.4	5.4
80°-90°	14.3	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°	331.0	31.3
0°-40°	525.8	49.6
0°-60°	875.3	82.7
0°-90°	1059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	448	446	442	446	445	42
15°	426	424	416	416	413	120
25°	386	381	368	364	360	178
35°	332	324	309	299	294	208
45°	272	262	244	230	225	210
55°	206	196	177	162	156	185
65°	140	128	110	97	92	138
75°	74	64	50	43	40	79
85°	19	12	11	10	10	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	448.3	448.3	448.3	448.3	448.3
2.5°	449.3	448.3	444.9	448.3	447.9
5°	447.6	446.2	442.5	445.8	445.1
7.5°	444.2	442.8	438.4	441.1	440.5
10°	439.1	438.1	433.3	434.4	433.3
12.5°	433.3	431.9	425.1	425.8	424.2
15°	425.6	423.5	416.4	416.0	413.0
17.5°	417.4	414.4	405.9	404.2	401.8
20°	407.6	404.2	393.4	391.7	388.7
22.5°	396.8	393.4	381.9	378.2	375.7
25°	385.9	380.8	368.3	363.9	360.2
27.5°	373.8	367.6	354.4	348.7	345.0
30°	360.2	353.8	339.5	331.8	328.7
32.5°	347.0	339.2	324.7	315.9	311.9
35°	332.5	324.4	309.1	299.3	294.5
37.5°	318.6	308.7	293.1	281.7	276.9
40°	303.7	293.5	277.3	264.4	260.4
42.5°	288.1	277.6	260.6	248.5	242.0
45°	272.2	262.4	243.7	230.2	225.1
47.5°	255.5	245.5	226.8	212.9	207.2
50°	240.0	228.8	209.6	195.4	190.3
52.5°	223.1	211.6	193.6	178.0	172.9
55°	206.5	195.7	176.8	161.5	156.1
57.5°	189.6	178.0	159.8	144.9	140.2
60°	173.3	161.5	143.2	128.3	123.2
62.5°	156.1	144.9	126.3	112.7	107.6
65°	139.9	128.3	110.4	96.8	91.7
67.5°	123.5	112.1	94.8	82.0	77.9
70°	107.0	95.5	78.5	68.0	64.0
72.5°	90.7	79.6	64.0	54.5	52.2
75°	74.5	64.3	50.1	42.7	40.3
77.5°	57.8	49.7	37.9	32.2	30.1
80°	44.0	35.9	26.4	23.4	22.7
82.5°	30.5	23.4	17.6	16.5	16.3
85°	18.6	12.5	10.9	10.5	10.2
87.5°	7.8	5.4	5.1	5.1	4.7
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)