

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P745995

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR3020359030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2615.3 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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: 24 FT

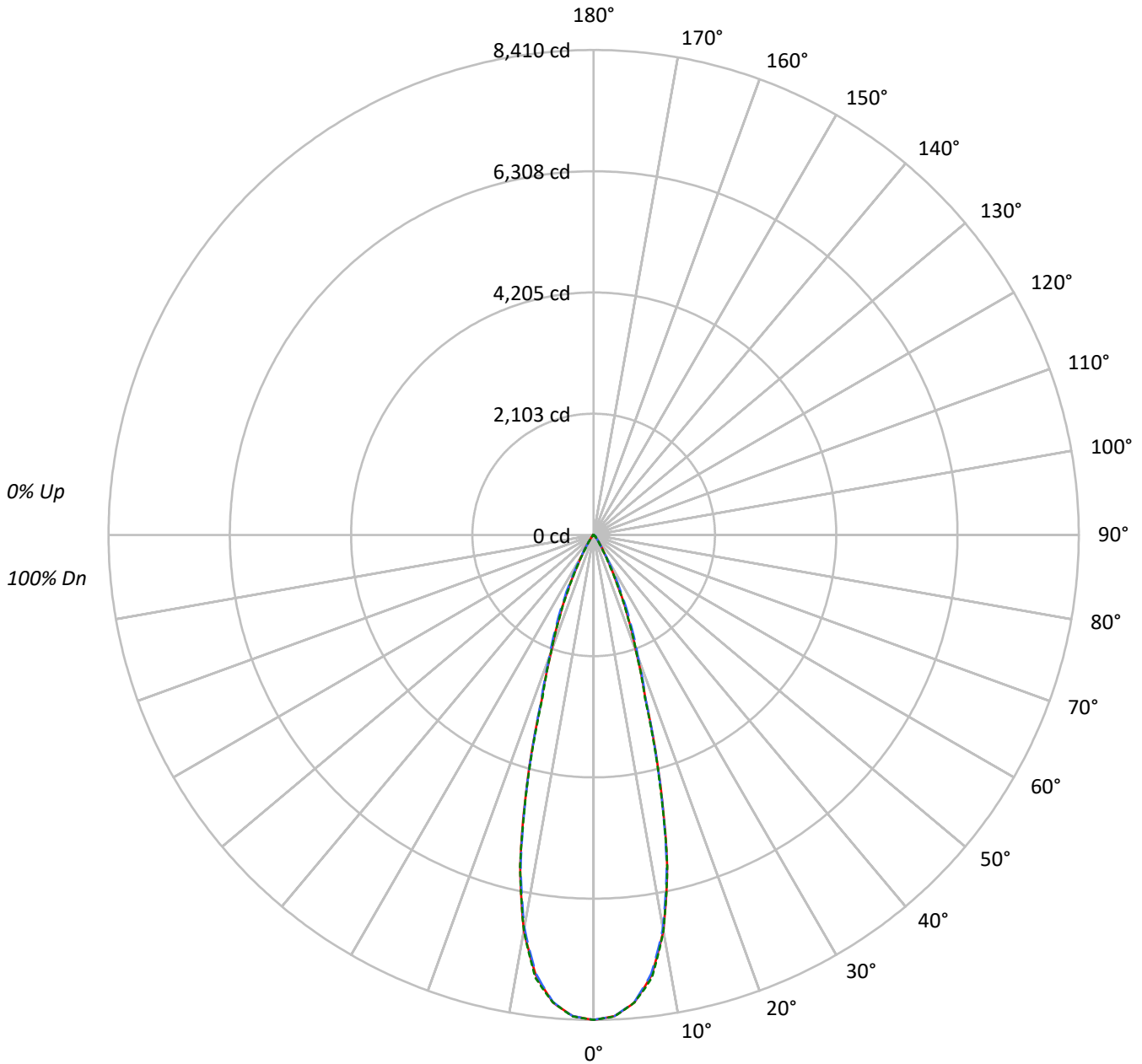


Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	643692	643692	643692
5°	625213	624483	625243
10°	541536	537712	541403
15°	353323	351429	349662
20°	175692	182282	175456
25°	88502	99802	86686
30°	35433	38606	30873
35°	16436	15736	13194
40°	7094	7874	6685
45°	5001	6213	5044
50°	1715	4525	1822
55°	988	1868	1041
60°	689	827	689
65°	453	453	453
70°	291	179	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6213 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.5	28.3
10°-20°	1191.0	45.5
20°-30°	514.6	19.7
30°-40°	117.3	4.5
40°-50°	40.3	1.5
50°-60°	9.8	0.4
60°-70°	2.6	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	2445.1	93.5
0°-40°	2562.4	98.0
0°-60°	2612.5	99.9
0°-90°	2615.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2615.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8410	8410	8410	8410	8410	
5°	8137	8129	8128	8144	8137	740
15°	4459	4405	4435	4420	4412	1194
25°	1048	1088	1182	1060	1026	502
35°	176	180	168	167	141	119
45°	46	57	57	57	47	33
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8409.5	8409.5	8409.5	8409.5	8409.5
2.5°	8353.8	8348.0	8351.3	8355.5	8357.1
5°	8137.0	8129.2	8127.5	8144.4	8137.4
7.5°	7699.8	7688.7	7671.7	7710.1	7746.0
10°	6967.4	6954.9	6918.2	6936.4	6965.7
12.5°	5886.0	5846.0	5845.1	5902.9	5895.1
15°	4458.7	4405.0	4434.8	4420.3	4412.5
17.5°	2998.3	2977.7	3017.3	3005.4	2953.7
20°	2156.9	2162.3	2237.8	2199.8	2154.0
22.5°	1573.9	1593.3	1682.9	1585.1	1549.1
25°	1047.9	1087.5	1181.7	1059.8	1026.4
27.5°	644.5	662.7	758.1	636.3	618.1
30°	400.9	391.8	436.8	374.9	349.3
32.5°	263.0	251.5	265.9	238.6	218.0
35°	175.9	179.6	168.4	167.2	141.2
37.5°	109.8	126.3	111.5	118.9	90.8
40°	71.0	91.7	78.8	87.1	66.9
42.5°	58.2	70.6	64.8	68.9	59.5
45°	46.2	57.4	57.4	57.4	46.6
47.5°	25.6	38.4	49.2	39.2	27.3
50°	14.4	19.4	38.0	20.2	15.3
52.5°	9.9	11.2	26.0	11.6	10.3
55°	7.4	7.8	14.0	8.3	7.8
57.5°	5.8	6.2	7.4	6.2	5.8
60°	4.5	4.5	5.4	4.9	4.5
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.8	0.8	0.8	1.3
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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