

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: P745996

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745996
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-EU4DR3020359030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 2746.1 lumens
Efficiency: N/A
Efficacy: 94.7 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 (Ain): 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

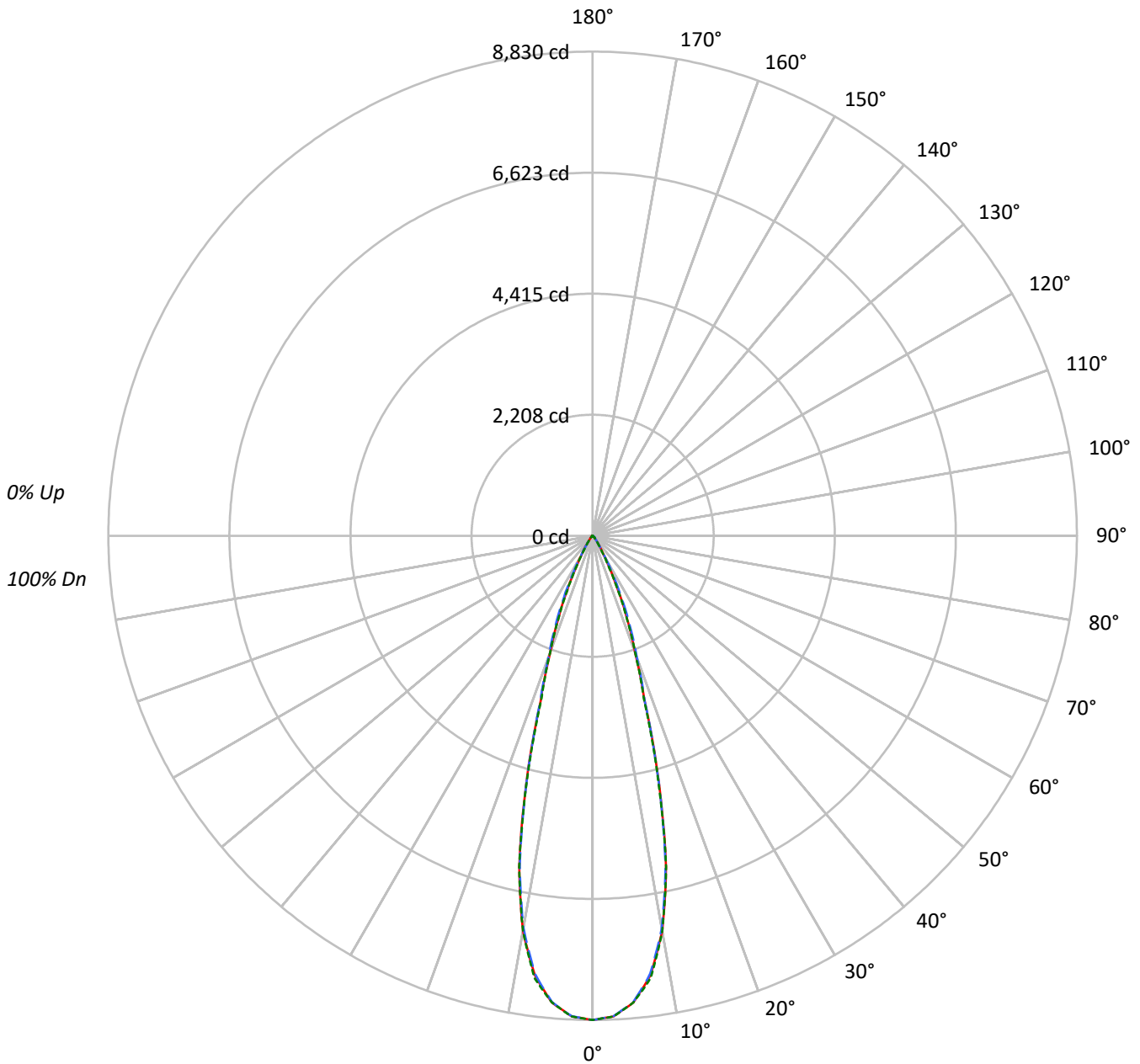


Downlight



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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	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°	675878	675878	675878
5°	656477	655709	656508
10°	568607	564596	568467
15°	370987	368998	367143
20°	184473	191397	184229
25°	92927	104785	91019
30°	37201	40533	32411
35°	17259	16530	13857
40°	7444	8273	7014
45°	5250	6527	5304
50°	1810	4751	1905
55°	1041	1962	1108
60°	735	857	735
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6527 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.5	28.3
10°-20°	1250.5	45.5
20°-30°	540.4	19.7
30°-40°	123.2	4.5
40°-50°	42.3	1.5
50°-60°	10.3	0.4
60°-70°	2.7	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°	2567.3	93.5
0°-40°	2690.5	98.0
0°-60°	2743.1	99.9
0°-90°	2746.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2746.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8830	8830	8830	8830	8830	
5°	8544	8536	8534	8552	8544	777
15°	4682	4625	4656	4641	4633	1254
25°	1100	1142	1241	1113	1078	527
35°	185	189	177	176	148	125
45°	48	60	60	60	49	34
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
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°	8830.0	8830.0	8830.0	8830.0	8830.0
2.5°	8771.5	8765.4	8768.9	8773.2	8775.0
5°	8543.9	8535.6	8533.9	8551.7	8544.3
7.5°	8084.8	8073.0	8055.3	8095.6	8133.3
10°	7315.7	7302.7	7264.1	7283.2	7313.9
12.5°	6180.3	6138.3	6137.4	6198.1	6189.9
15°	4681.6	4625.3	4656.5	4641.3	4633.1
17.5°	3148.3	3126.6	3168.2	3155.6	3101.4
20°	2264.7	2270.4	2349.7	2309.8	2261.7
22.5°	1652.6	1673.0	1767.0	1664.3	1626.6
25°	1100.3	1141.9	1240.7	1112.8	1077.7
27.5°	676.7	695.8	795.9	668.1	649.0
30°	420.9	411.4	458.6	393.6	366.7
32.5°	276.2	264.0	279.2	250.6	228.9
35°	184.7	188.6	176.9	175.6	148.3
37.5°	115.3	132.6	117.1	124.8	95.4
40°	74.5	96.3	82.8	91.5	70.2
42.5°	61.1	74.1	68.1	72.4	62.5
45°	48.5	60.3	60.3	60.3	49.0
47.5°	26.9	40.3	51.6	41.2	28.6
50°	15.2	20.4	39.9	21.3	16.0
52.5°	10.4	11.7	27.3	12.1	10.8
55°	7.8	8.3	14.7	8.7	8.3
57.5°	6.1	6.5	7.8	6.5	6.1
60°	4.8	4.8	5.6	5.2	4.8
62.5°	3.5	3.5	3.9	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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