

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: P744162

Luminaire Tested: LD4D20D010-EU4DR3020359050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744162
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: LD4D20D010-EU4DR3020359050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1930.5 lumens
Efficiency: N/A
Efficacy: 83.6 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): 23.1
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

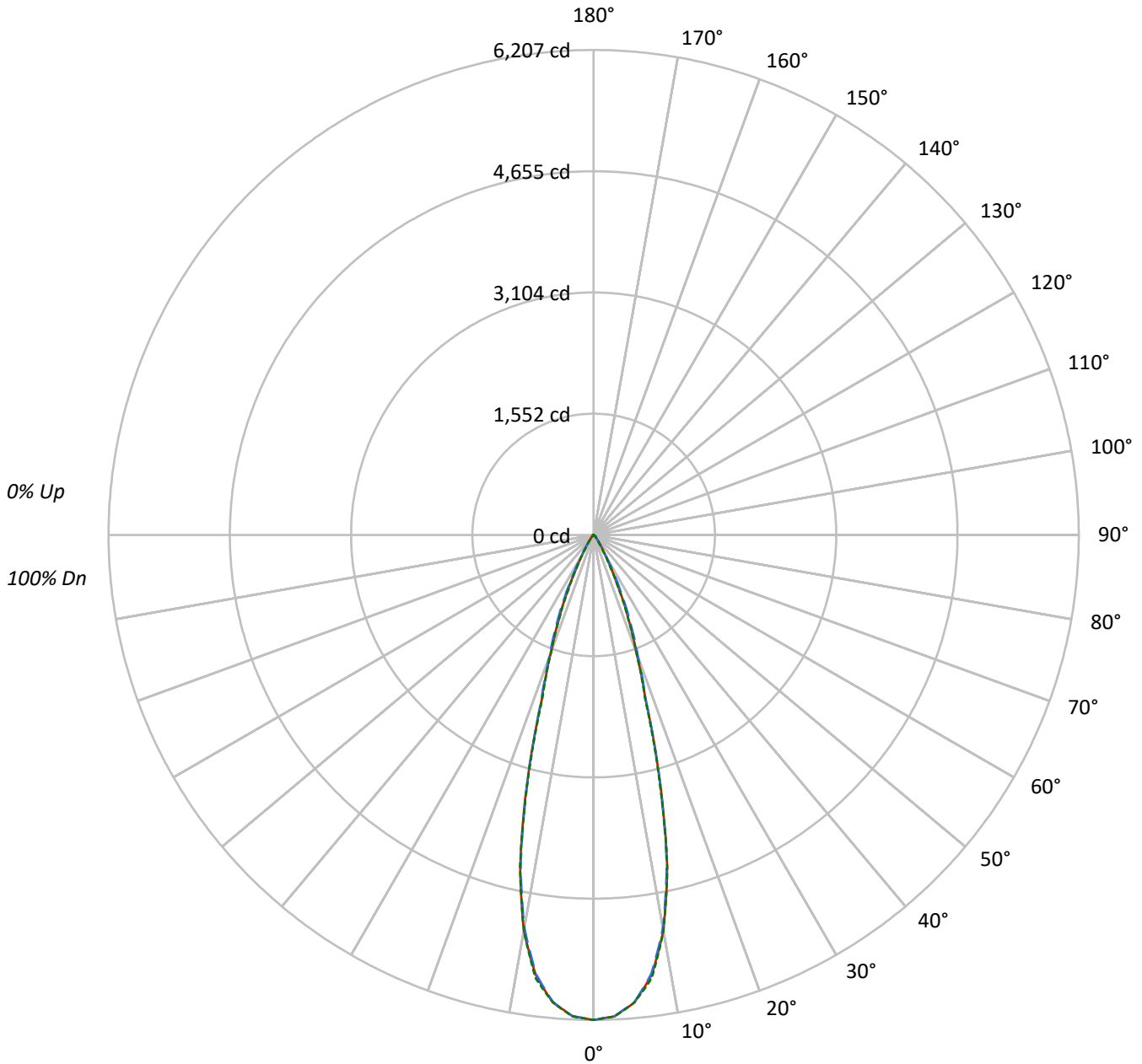


Downlight



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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	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°	475128	475128	475128
5°	461491	460953	461514
10°	399728	396906	399627
15°	260798	259396	258096
20°	129686	134549	129507
25°	65327	73663	63984
30°	26153	28504	22786
35°	12129	11615	9737
40°	5236	5815	4936
45°	3691	4579	3724
50°	1274	3334	1346
55°	734	1388	774
60°	520	612	520
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4579 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.8	28.3
10°-20°	879.1	45.5
20°-30°	379.9	19.7
30°-40°	86.6	4.5
40°-50°	29.7	1.5
50°-60°	7.3	0.4
60°-70°	1.9	0.1
70°-80°	0.2	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°	1804.8	93.5
0°-40°	1891.4	98.0
0°-60°	1928.4	99.9
0°-90°	1930.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1930.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6207	6207	6207	6207	6207	
5°	6006	6000	5999	6012	6006	546
15°	3291	3252	3273	3263	3257	881
25°	774	803	872	782	758	370
35°	130	133	124	123	104	88
45°	34	42	42	42	34	24
55°	6	6	10	6	6	5
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6207.3	6207.3	6207.3	6207.3	6207.3
2.5°	6166.2	6162.0	6164.4	6167.5	6168.7
5°	6006.2	6000.5	5999.2	6011.7	6006.5
7.5°	5683.5	5675.2	5662.8	5691.1	5717.6
10°	5142.9	5133.7	5106.6	5120.0	5141.6
12.5°	4344.7	4315.1	4314.5	4357.2	4351.4
15°	3291.1	3251.5	3273.4	3262.8	3257.0
17.5°	2213.2	2198.0	2227.2	2218.4	2180.2
20°	1592.1	1596.0	1651.8	1623.7	1589.9
22.5°	1161.8	1176.1	1242.2	1170.0	1143.4
25°	773.5	802.8	872.2	782.3	757.6
27.5°	475.7	489.1	559.5	469.6	456.2
30°	295.9	289.2	322.5	276.7	257.8
32.5°	194.1	185.6	196.3	176.1	160.9
35°	129.8	132.6	124.3	123.4	104.2
37.5°	81.1	93.3	82.3	87.8	67.0
40°	52.4	67.7	58.2	64.3	49.4
42.5°	43.0	52.1	47.8	50.9	43.9
45°	34.1	42.3	42.3	42.3	34.4
47.5°	18.9	28.4	36.3	28.9	20.1
50°	10.7	14.3	28.0	15.0	11.3
52.5°	7.3	8.3	19.2	8.5	7.6
55°	5.5	5.8	10.4	6.1	5.8
57.5°	4.2	4.6	5.5	4.6	4.2
60°	3.4	3.4	4.0	3.7	3.4
62.5°	2.5	2.5	2.8	2.5	2.5
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.2	1.2	1.2	1.2
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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