

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



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: P746777

Luminaire Tested: LD4D35BD010-EU4DR3020359030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746777
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: LD4D35BD010-EU4DR3020359030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2783.8 lumens
Efficiency: N/A
Efficacy: 90.4 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): 30.8
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

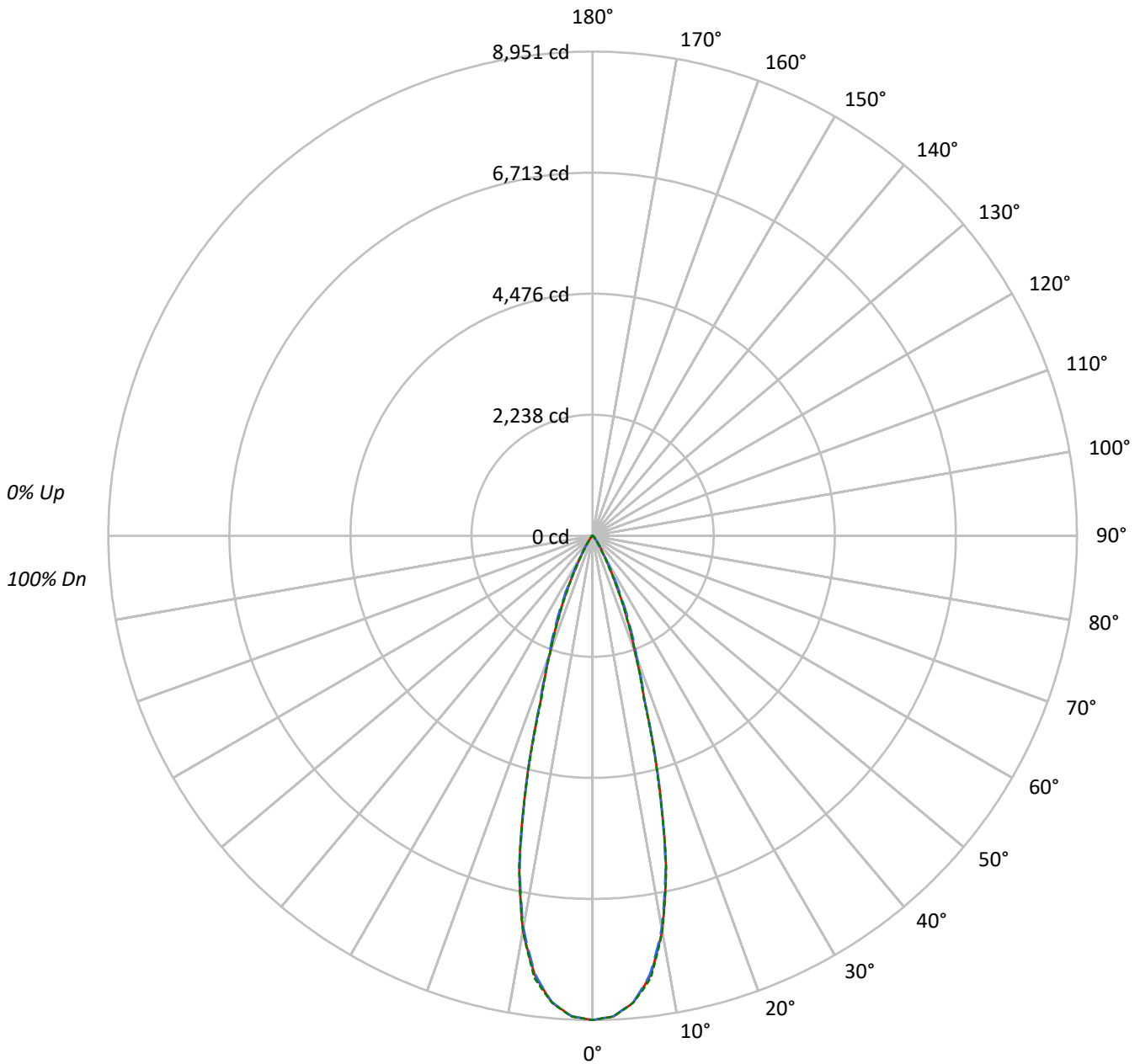


Downlight

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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					70					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	100	100	100	100	100		
	1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96	96	96	96	96	96		
	2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92	92	92	92	92	92		
	3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	89	89	89	89	89		
	4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85	85	85	85	85	85		
	5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82	82	82	82	82	82		
	6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79	79	79	79	79	79		
	7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77	77	77	77	77	77		
	8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74	74	74	74	74	74		
	9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72	72	72	72	72	72		
	10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69	69	69	69	69	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	685155	685155	685155
5°	665490	664714	665521
10°	576418	572353	576278
15°	376082	374061	372183
20°	187006	194028	186754
25°	94203	106229	92268
30°	37714	41099	32861
35°	17492	16754	14044
40°	7554	8383	7114
45°	5326	6614	5380
50°	1834	4811	1941
55°	1054	1988	1121
60°	735	873	735
65°	471	471	471
70°	291	201	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: 6614 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.1	28.3
10°-20°	1267.7	45.5
20°-30°	547.8	19.7
30°-40°	124.9	4.5
40°-50°	42.9	1.5
50°-60°	10.5	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°	2602.6	93.5
0°-40°	2727.4	98.0
0°-60°	2780.8	99.9
0°-90°	2783.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2783.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8951	8951	8951	8951	8951	
5°	8661	8653	8651	8669	8662	788
15°	4746	4689	4720	4705	4697	1271
25°	1115	1158	1258	1128	1092	534
35°	187	191	179	178	150	127
45°	49	61	61	61	50	35
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°	8951.2	8951.2	8951.2	8951.2	8951.2
2.5°	8891.9	8885.8	8889.3	8893.7	8895.4
5°	8661.2	8652.8	8651.1	8669.1	8661.6
7.5°	8195.8	8183.9	8165.9	8206.8	8245.0
10°	7416.2	7403.0	7363.9	7383.2	7414.4
12.5°	6265.2	6222.5	6221.7	6283.2	6274.8
15°	4745.9	4688.8	4720.4	4705.0	4696.7
17.5°	3191.5	3169.5	3211.7	3198.9	3144.0
20°	2295.8	2301.5	2382.0	2341.5	2292.7
22.5°	1675.3	1695.9	1791.3	1687.1	1648.9
25°	1115.4	1157.6	1257.8	1128.1	1092.5
27.5°	686.0	705.4	806.9	677.2	657.9
30°	426.7	417.1	465.0	399.0	371.8
32.5°	279.9	267.6	283.0	254.0	232.0
35°	187.2	191.2	179.3	178.0	150.3
37.5°	116.9	134.5	118.7	126.6	96.7
40°	75.6	97.6	83.9	92.7	71.2
42.5°	62.0	75.2	69.0	73.4	63.3
45°	49.2	61.1	61.1	61.1	49.7
47.5°	27.2	40.9	52.3	41.8	29.0
50°	15.4	20.7	40.4	21.5	16.3
52.5°	10.5	11.9	27.7	12.3	11.0
55°	7.9	8.4	14.9	8.8	8.4
57.5°	6.2	6.6	7.9	6.6	6.2
60°	4.8	4.8	5.7	5.3	4.8
62.5°	3.5	3.5	4.0	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	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

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Scaled Data Report





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

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