

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: P781007

Luminaire Tested: LER4D35BD010-EC4DR3020359040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781007
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: LER4D35BD010-EC4DR3020359040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3302.9 lumens
Efficiency: N/A
Efficacy: 107.2 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): 30.8
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

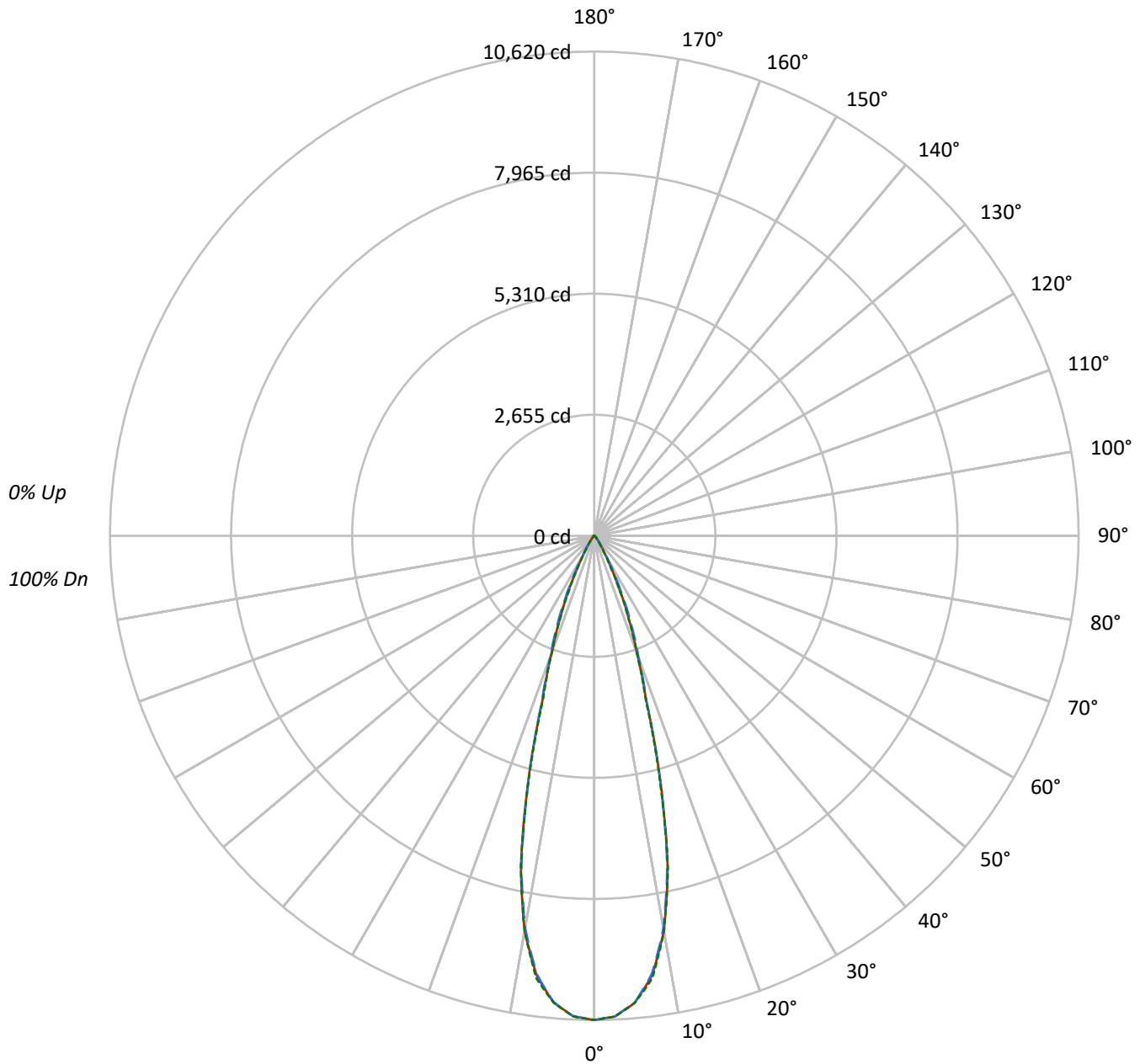


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	812914	812914	812914
5°	789580	788658	789618
10°	683895	679069	683732
15°	446205	443811	441577
20°	221877	230202	221584
25°	111769	126034	109481
30°	44749	48762	38986
35°	20754	19875	16661
40°	8963	9952	8443
45°	6322	7848	6376
50°	2167	5716	2298
55°	1254	2362	1321
60°	873	1041	873
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7848 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.9	28.3
10°-20°	1504.0	45.5
20°-30°	649.9	19.7
30°-40°	148.1	4.5
40°-50°	50.9	1.5
50°-60°	12.4	0.4
60°-70°	3.2	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°	3087.9	93.5
0°-40°	3236.0	98.0
0°-60°	3299.3	99.9
0°-90°	3302.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10620	10620	10620	10620	10620	
5°	10276	10266	10264	10286	10277	935
15°	5631	5563	5601	5582	5572	1508
25°	1323	1373	1492	1338	1296	633
35°	222	227	213	211	178	151
45°	58	72	72	72	59	41
55°	9	10	18	10	10	9
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10620.3	10620.3	10620.3	10620.3	10620.3
2.5°	10549.9	10542.6	10546.8	10552.0	10554.1
5°	10276.2	10266.3	10264.2	10285.6	10276.7
7.5°	9724.0	9709.9	9688.5	9737.0	9782.4
10°	8799.0	8783.4	8736.9	8759.9	8796.9
12.5°	7433.4	7382.8	7381.8	7454.8	7444.9
15°	5630.8	5563.0	5600.6	5582.3	5572.4
17.5°	3786.6	3760.5	3810.6	3795.4	3730.3
20°	2723.9	2730.7	2826.1	2778.1	2720.3
22.5°	1987.7	2012.2	2125.3	2001.7	1956.4
25°	1323.4	1373.4	1492.3	1338.5	1296.3
27.5°	813.9	836.9	957.3	803.5	780.6
30°	506.3	494.8	551.7	473.5	441.1
32.5°	332.1	317.5	335.8	301.4	275.3
35°	222.1	226.8	212.7	211.2	178.3
37.5°	138.7	159.6	140.8	150.2	114.7
40°	89.7	115.8	99.6	110.0	84.5
42.5°	73.5	89.2	81.9	87.1	75.1
45°	58.4	72.5	72.5	72.5	58.9
47.5°	32.3	48.5	62.0	49.5	34.4
50°	18.2	24.5	48.0	25.5	19.3
52.5°	12.5	14.1	32.8	14.6	13.0
55°	9.4	9.9	17.7	10.4	9.9
57.5°	7.3	7.8	9.4	7.8	7.3
60°	5.7	5.7	6.8	6.3	5.7
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	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



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

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)