

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: P780988

Luminaire Tested: LER4D35BD010-EC4DR3020359024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780988
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-EC4DR3020359024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2639.0 lumens
Efficiency: N/A
Efficacy: 85.7 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): 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

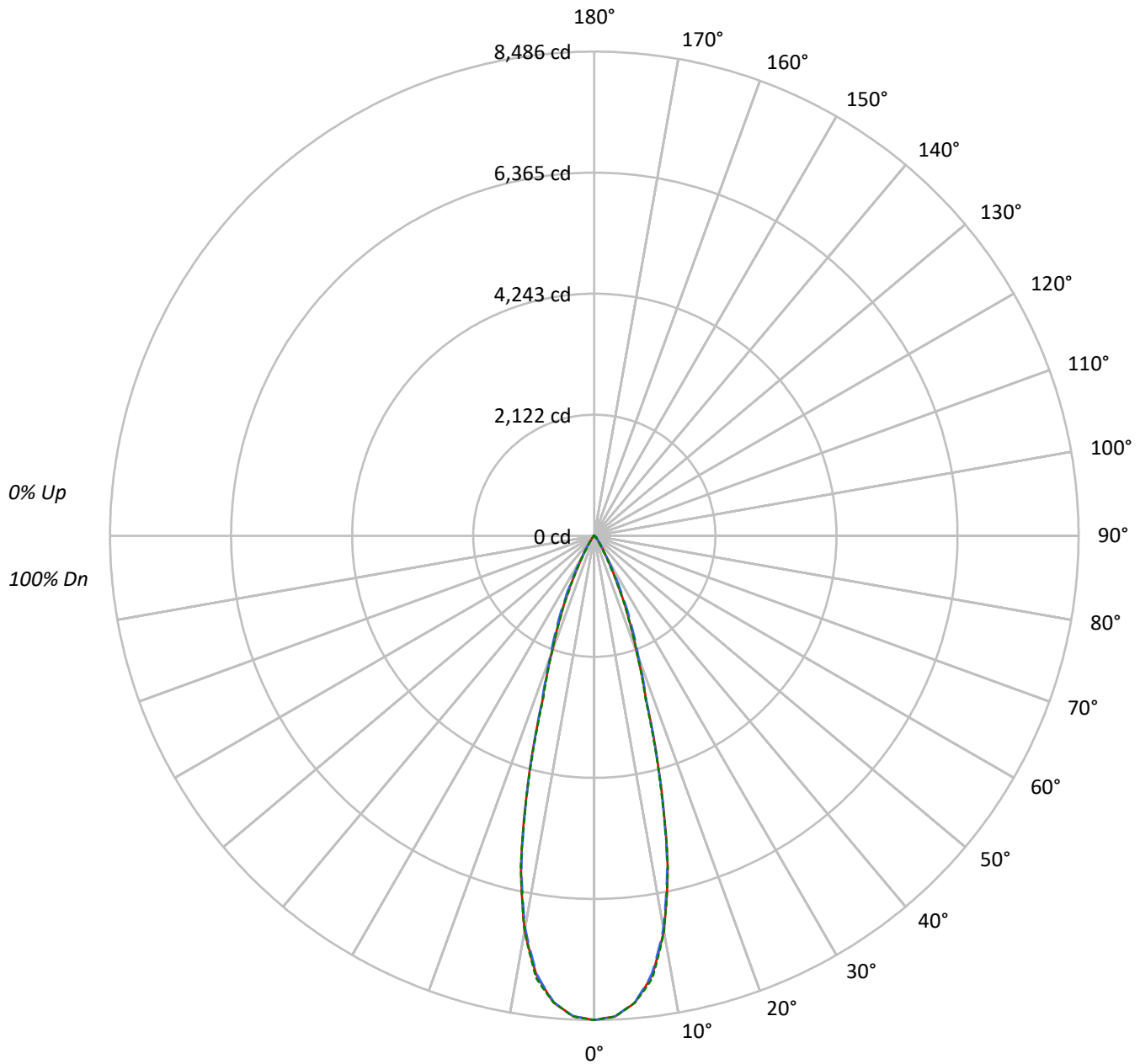


Downlight

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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				10
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°	649540	649540	649540
5°	630899	630161	630929
10°	546448	542600	546323
15°	356533	354615	352832
20°	177289	183935	177052
25°	89304	100706	87471
30°	35752	38960	31156
35°	16586	15885	13316
40°	7164	7954	6745
45°	5055	6268	5099
50°	1739	4561	1834
55°	1001	1895	1054
60°	704	827	704
65°	453	453	453
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6268 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.2	28.3
10°-20°	1201.8	45.5
20°-30°	519.3	19.7
30°-40°	118.4	4.5
40°-50°	40.6	1.5
50°-60°	9.9	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°	2467.3	93.5
0°-40°	2585.7	98.0
0°-60°	2636.2	99.9
0°-90°	2639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8486	8486	8486	8486	8486	
5°	8211	8203	8201	8218	8211	747
15°	4499	4445	4475	4460	4452	1205
25°	1057	1097	1192	1070	1036	506
35°	178	181	170	169	142	120
45°	47	58	58	58	47	33
55°	8	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8485.9	8485.9	8485.9	8485.9	8485.9
2.5°	8429.7	8423.9	8427.2	8431.4	8433.0
5°	8211.0	8203.0	8201.4	8218.5	8211.4
7.5°	7769.7	7758.5	7741.4	7780.2	7816.4
10°	7030.6	7018.1	6981.1	6999.4	7029.0
12.5°	5939.5	5899.1	5898.2	5956.6	5948.7
15°	4499.2	4445.0	4475.0	4460.5	4452.5
17.5°	3025.6	3004.7	3044.7	3032.7	2980.6
20°	2176.5	2181.9	2258.1	2219.8	2173.6
22.5°	1588.2	1607.8	1698.2	1599.4	1563.2
25°	1057.4	1097.4	1192.4	1069.5	1035.7
27.5°	650.4	668.7	764.9	642.0	623.7
30°	404.5	395.4	440.8	378.3	352.5
32.5°	265.4	253.7	268.3	240.8	220.0
35°	177.5	181.2	170.0	168.7	142.5
37.5°	110.8	127.5	112.5	120.0	91.7
40°	71.7	92.5	79.6	87.9	67.5
42.5°	58.7	71.2	65.4	69.6	60.0
45°	46.7	57.9	57.9	57.9	47.1
47.5°	25.8	38.7	49.6	39.6	27.5
50°	14.6	19.6	38.3	20.4	15.4
52.5°	10.0	11.2	26.2	11.7	10.4
55°	7.5	7.9	14.2	8.3	7.9
57.5°	5.8	6.2	7.5	6.2	5.8
60°	4.6	4.6	5.4	5.0	4.6
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°	1.2	1.7	1.7	1.7	1.7
70°	1.2	0.8	0.8	0.8	1.2
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)