

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: P781001

Luminaire Tested: LER4D35BD010-EC4DR3020359035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781001
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-EC4DR3020359035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3319.5 lumens
Efficiency: N/A
Efficacy: 107.8 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

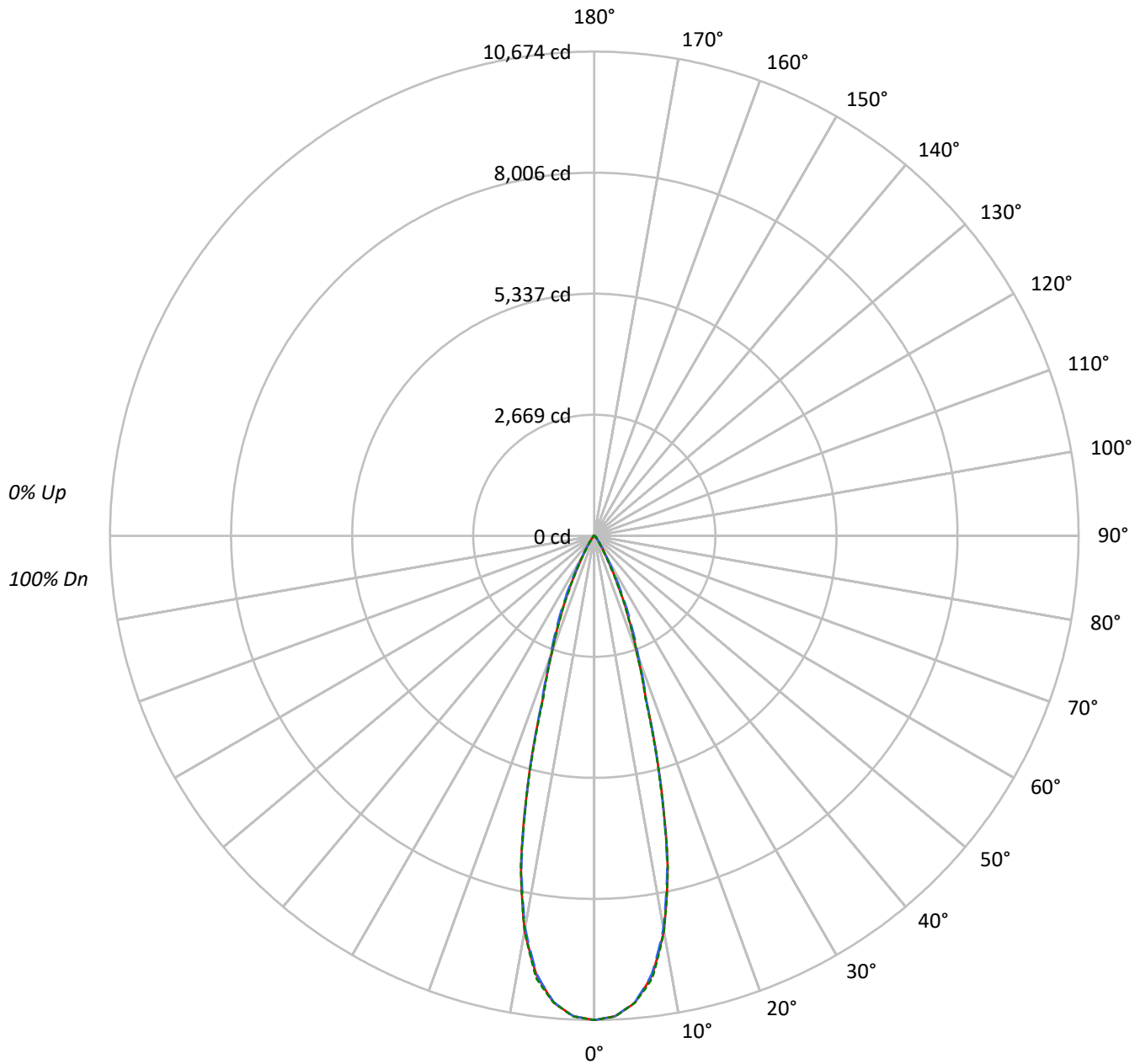


Downlight

TEST NUMBER: P781001

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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°	817009	817009	817009
5°	793552	792630	793591
10°	687338	682488	687175
15°	448455	446046	443804
20°	222993	231359	222700
25°	112327	126668	110030
30°	44970	49000	39181
35°	20856	19978	16745
40°	9003	10002	8483
45°	6354	7881	6408
50°	2179	5740	2310
55°	1254	2375	1334
60°	888	1041	888
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: 7881 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.6	28.3
10°-20°	1511.6	45.5
20°-30°	653.2	19.7
30°-40°	148.9	4.5
40°-50°	51.1	1.5
50°-60°	12.5	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°	3103.4	93.5
0°-40°	3252.3	98.0
0°-60°	3315.9	99.9
0°-90°	3319.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3319.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10674	10674	10674	10674	10674	
5°	10328	10318	10316	10337	10328	939
15°	5659	5591	5629	5610	5600	1515
25°	1330	1380	1500	1345	1303	637
35°	223	228	214	212	179	151
45°	59	73	73	73	59	42
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°	10673.8	10673.8	10673.8	10673.8	10673.8
2.5°	10603.0	10595.7	10599.9	10605.1	10607.2
5°	10327.9	10317.9	10315.9	10337.3	10328.4
7.5°	9772.9	9758.8	9737.3	9786.0	9831.6
10°	8843.3	8827.6	8780.9	8804.0	8841.2
12.5°	7470.8	7420.0	7418.9	7492.3	7482.3
15°	5659.2	5591.1	5628.8	5610.4	5600.5
17.5°	3805.6	3779.4	3829.7	3814.5	3749.0
20°	2737.6	2744.4	2840.3	2792.1	2734.0
22.5°	1997.7	2022.3	2136.0	2011.8	1966.2
25°	1330.0	1380.3	1499.8	1345.2	1302.8
27.5°	818.0	841.1	962.1	807.6	784.5
30°	508.8	497.3	554.4	475.8	443.3
32.5°	333.8	319.1	337.5	302.9	276.7
35°	223.2	228.0	213.8	212.2	179.2
37.5°	139.4	160.4	141.5	150.9	115.3
40°	90.1	116.3	100.1	110.6	84.9
42.5°	73.9	89.6	82.3	87.5	75.5
45°	58.7	72.8	72.8	72.8	59.2
47.5°	32.5	48.7	62.4	49.8	34.6
50°	18.3	24.6	48.2	25.7	19.4
52.5°	12.6	14.1	33.0	14.7	13.1
55°	9.4	10.0	17.8	10.5	10.0
57.5°	7.3	7.9	9.4	7.9	7.3
60°	5.8	5.8	6.8	6.3	5.8
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)