

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: P781005

Luminaire Tested: LER4D35BD010-EC4DR3020359040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781005
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-EC4DR3020359040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3474.7 lumens
Efficiency: N/A
Efficacy: 112.8 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 (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

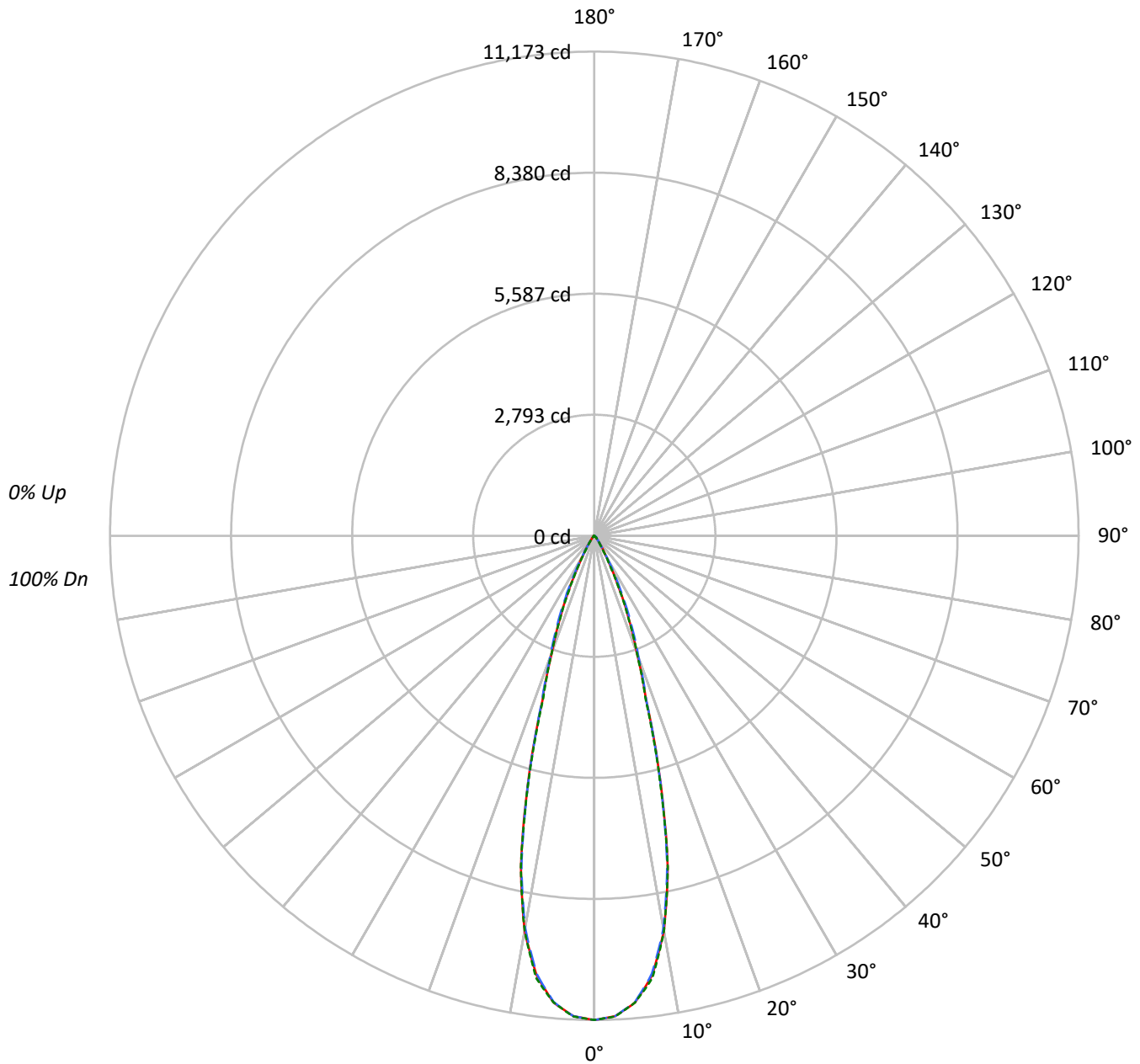


Downlight

TEST NUMBER: P781005

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	855204	855204	855204
5°	830656	829680	830695
10°	719470	714394	719299
15°	469423	466895	464549
20°	233420	242176	233110
25°	117580	132588	115173
30°	47074	51298	41019
35°	21837	20912	17530
40°	9432	10472	8883
45°	6646	8249	6711
50°	2286	6014	2417
55°	1321	2496	1388
60°	919	1087	919
65°	598	598	598
70°	358	246	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: 8249 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.5	28.3
10°-20°	1582.3	45.5
20°-30°	683.7	19.7
30°-40°	155.8	4.5
40°-50°	53.5	1.5
50°-60°	13.1	0.4
60°-70°	3.4	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°	3248.5	93.5
0°-40°	3404.4	98.0
0°-60°	3470.9	99.9
0°-90°	3474.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3474.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11173	11173	11173	11173	11173	
5°	10811	10800	10798	10821	10811	983
15°	5924	5852	5892	5873	5862	1586
25°	1392	1445	1570	1408	1364	666
35°	234	239	224	222	188	159
45°	61	76	76	76	62	44
55°	10	10	19	11	10	10
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°	11172.8	11172.8	11172.8	11172.8	11172.8
2.5°	11098.7	11091.1	11095.5	11100.9	11103.1
5°	10810.8	10800.3	10798.1	10820.6	10811.3
7.5°	10229.8	10215.0	10192.5	10243.6	10291.3
10°	9256.7	9240.3	9191.4	9215.6	9254.5
12.5°	7820.1	7766.9	7765.8	7842.6	7832.1
15°	5923.8	5852.4	5891.9	5872.7	5862.3
17.5°	3983.5	3956.1	4008.8	3992.9	3924.3
20°	2865.6	2872.7	2973.1	2922.7	2861.8
22.5°	2091.1	2116.8	2235.9	2105.9	2058.1
25°	1392.2	1444.9	1569.9	1408.1	1363.7
27.5°	856.3	880.4	1007.1	845.3	821.2
30°	532.6	520.6	580.4	498.1	464.1
32.5°	349.4	334.1	353.3	317.1	289.6
35°	233.7	238.6	223.8	222.2	187.6
37.5°	145.9	167.9	148.1	158.0	120.7
40°	94.4	121.8	104.8	115.7	88.9
42.5°	77.3	93.8	86.1	91.6	79.0
45°	61.4	76.2	76.2	76.2	62.0
47.5°	34.0	51.0	65.3	52.1	36.2
50°	19.2	25.8	50.5	26.9	20.3
52.5°	13.2	14.8	34.6	15.4	13.7
55°	9.9	10.4	18.7	11.0	10.4
57.5°	7.7	8.2	9.9	8.2	7.7
60°	6.0	6.0	7.1	6.6	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	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)