

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: P781469

Luminaire Tested: LER4D45BD010-EC4DR3040509024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781469
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: LER4D45BD010-EC4DR3040509024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3629.7 lumens
Efficiency: N/A
Efficacy: 93.8 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): 38.7
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

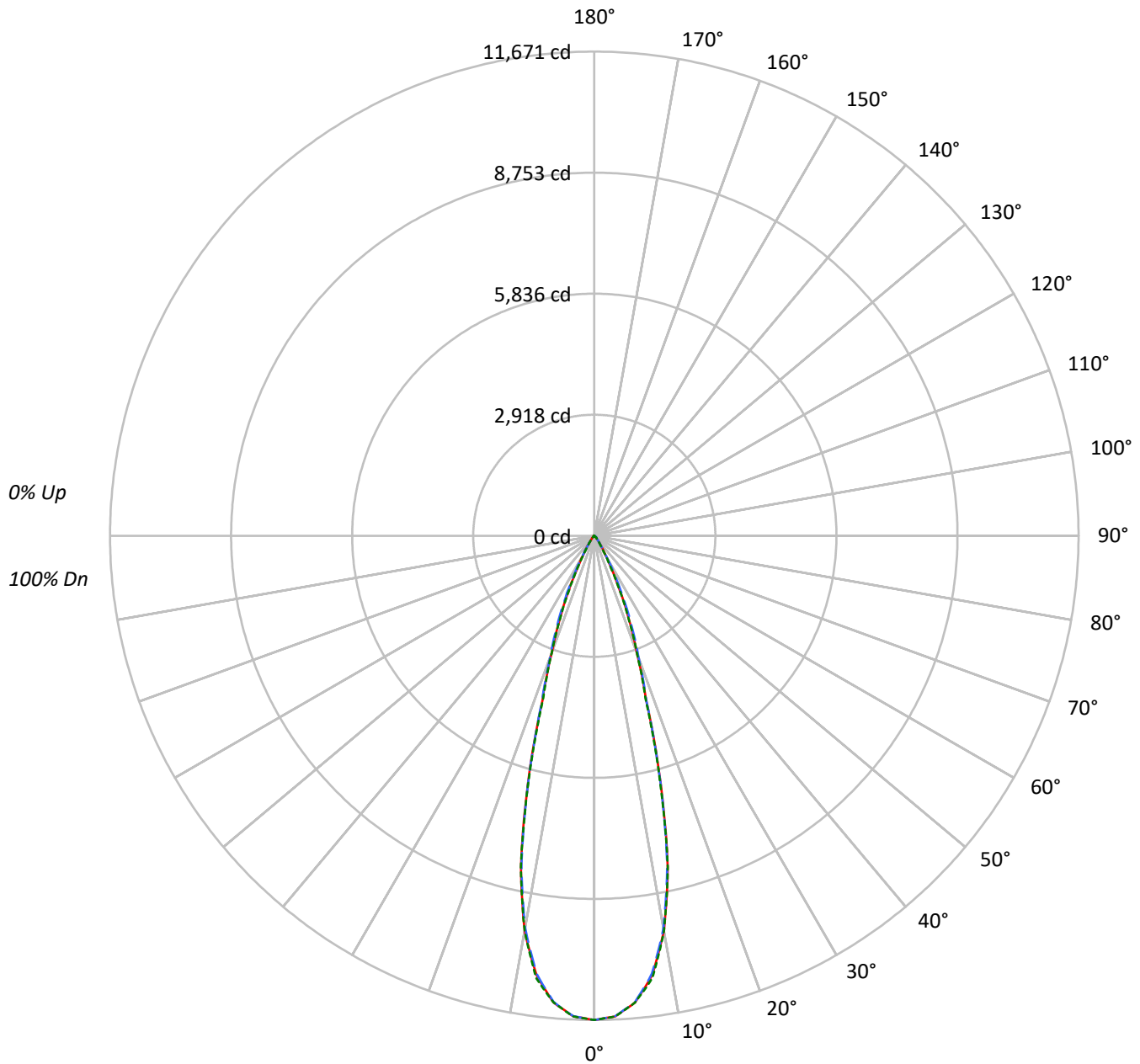


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	893353	893353	893353
5°	867706	866692	867745
10°	751562	746261	751383
15°	490359	487720	485272
20°	243830	252977	243504
25°	122825	138508	120308
30°	49177	53579	42849
35°	22809	21847	18315
40°	9852	10931	9273
45°	6950	8617	7015
50°	2394	6276	2525
55°	1375	2602	1455
60°	964	1133	964
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8617 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.3	28.3
10°-20°	1652.9	45.5
20°-30°	714.2	19.7
30°-40°	162.8	4.5
40°-50°	55.9	1.5
50°-60°	13.7	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3393.4	93.5
0°-40°	3556.2	98.0
0°-60°	3625.8	99.9
0°-90°	3629.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3629.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11671	11671	11671	11671	11671	
5°	11293	11282	11280	11303	11294	1027
15°	6188	6114	6155	6135	6124	1657
25°	1454	1509	1640	1471	1424	696
35°	244	249	234	232	196	166
45°	64	80	80	80	65	46
55°	10	11	20	12	11	10
65°	3	3	3	3	3	3
75°	0	0	1	0	0	1
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°	11671.2	11671.2	11671.2	11671.2	11671.2
2.5°	11593.8	11585.8	11590.4	11596.1	11598.4
5°	11293.0	11282.1	11279.8	11303.3	11293.5
7.5°	10686.1	10670.7	10647.2	10700.5	10750.3
10°	9669.6	9652.4	9601.4	9626.6	9667.3
12.5°	8168.9	8113.3	8112.2	8192.4	8181.5
15°	6188.0	6113.5	6154.7	6134.7	6123.8
17.5°	4161.2	4132.6	4187.6	4171.0	4099.3
20°	2993.4	3000.9	3105.7	3053.0	2989.4
22.5°	2184.3	2211.3	2335.6	2199.8	2149.9
25°	1454.3	1509.3	1640.0	1470.9	1424.5
27.5°	894.5	919.7	1052.1	883.0	857.8
30°	556.4	543.8	606.2	520.3	484.8
32.5°	365.0	349.0	369.0	331.2	302.6
35°	244.1	249.3	233.8	232.1	196.0
37.5°	152.4	175.3	154.7	165.0	126.1
40°	98.6	127.2	109.4	120.9	92.8
42.5°	80.8	98.0	90.0	95.7	82.5
45°	64.2	79.6	79.6	79.6	64.8
47.5°	35.5	53.3	68.2	54.4	37.8
50°	20.1	26.9	52.7	28.1	21.2
52.5°	13.8	15.5	36.1	16.0	14.3
55°	10.3	10.9	19.5	11.5	10.9
57.5°	8.0	8.6	10.3	8.6	8.0
60°	6.3	6.3	7.4	6.9	6.3
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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)