

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: P781236

Luminaire Tested: LER4D40BD010-EC4DR3040509030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781236
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: LER4D40BD010-EC4DR3040509030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3625.6 lumens
Efficiency: N/A
Efficacy: 103.0 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): 35.2
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

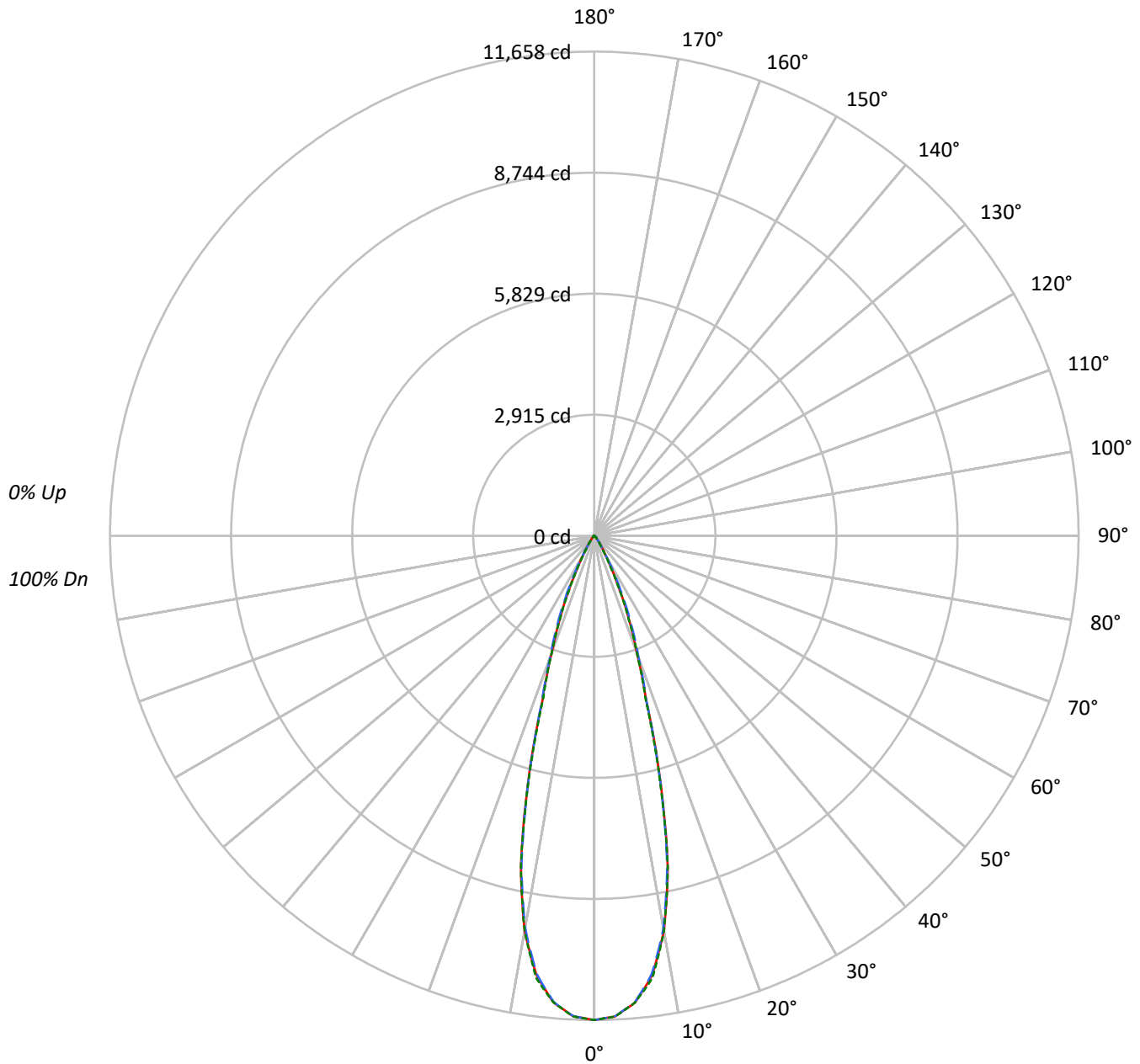


Downlight

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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°	892351	892351	892351
5°	866738	865724	866777
10°	750723	745429	750544
15°	489812	487181	484733
20°	243561	252700	243235
25°	122690	138348	120173
30°	49124	53526	42796
35°	22781	21819	18296
40°	9832	10921	9263
45°	6939	8617	7004
50°	2382	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°	1025.2	28.3
10°-20°	1651.0	45.5
20°-30°	713.4	19.7
30°-40°	162.6	4.5
40°-50°	55.8	1.5
50°-60°	13.6	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°	3389.6	93.5
0°-40°	3552.2	98.0
0°-60°	3621.7	99.9
0°-90°	3625.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3625.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11658	11658	11658	11658	11658	
5°	11280	11270	11267	11291	11281	1026
15°	6181	6107	6148	6128	6117	1655
25°	1453	1508	1638	1469	1423	695
35°	244	249	234	232	196	165
45°	64	80	80	80	65	45
55°	10	11	20	11	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°	11658.1	11658.1	11658.1	11658.1	11658.1
2.5°	11580.8	11572.8	11577.4	11583.1	11585.4
5°	11280.4	11269.5	11267.2	11290.7	11280.9
7.5°	10674.2	10658.8	10635.3	10688.5	10738.3
10°	9658.8	9641.6	9590.7	9615.9	9656.5
12.5°	8159.8	8104.2	8103.1	8183.2	8172.4
15°	6181.1	6106.7	6147.9	6127.8	6117.0
17.5°	4156.6	4128.0	4182.9	4166.3	4094.8
20°	2990.1	2997.5	3102.3	3049.6	2986.1
22.5°	2181.9	2208.8	2333.0	2197.3	2147.5
25°	1452.7	1507.6	1638.1	1469.3	1422.9
27.5°	893.5	918.7	1050.9	882.0	856.8
30°	555.8	543.2	605.6	519.7	484.2
32.5°	364.6	348.6	368.6	330.8	302.2
35°	243.8	249.0	233.5	231.8	195.8
37.5°	152.3	175.1	154.5	164.8	125.9
40°	98.4	127.1	109.3	120.8	92.7
42.5°	80.7	97.9	89.9	95.6	82.4
45°	64.1	79.6	79.6	79.6	64.7
47.5°	35.5	53.2	68.1	54.4	37.8
50°	20.0	26.9	52.7	28.0	21.2
52.5°	13.7	15.5	36.1	16.0	14.3
55°	10.3	10.9	19.5	11.4	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)