

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: P778626

Luminaire Tested: LER4D02D010-EC4DR300210IC9035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778626
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: LER4D02D010-EC4DR300210IC9035-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 397.1 lumens
Efficiency: N/A
Efficacy: 77.9 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): 5.1
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



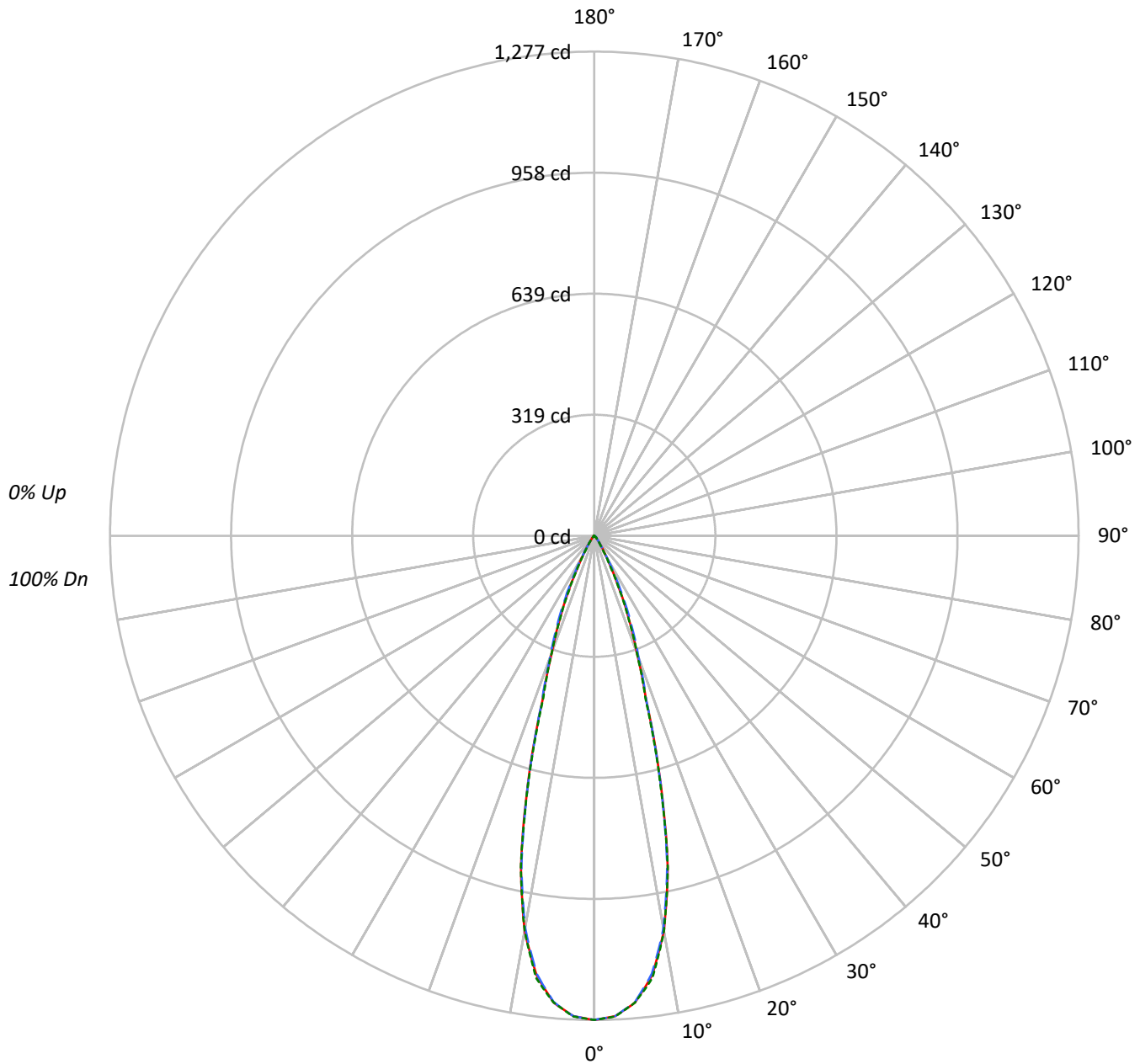
Downlight



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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°	97738	97738	97738
5°	94931	94823	94938
10°	82224	81642	82209
15°	53648	53355	53093
20°	26677	27679	26636
25°	13437	15151	13158
30°	5374	5860	4693
35°	2495	2392	2000
40°	1079	1199	1009
45°	758	942	769
50°	262	691	274
55°	147	280	160
60°	107	122	107
65°	72	72	72
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 942 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	28.3
10°-20°	180.8	45.5
20°-30°	78.1	19.7
30°-40°	17.8	4.5
40°-50°	6.1	1.5
50°-60°	1.5	0.4
60°-70°	0.4	0.1
70°-80°	0.0	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°	371.2	93.5
0°-40°	389.1	98.0
0°-60°	396.7	99.9
0°-90°	397.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1236	1234	1234	1237	1236	112
15°	677	669	673	671	670	181
25°	159	165	179	161	156	76
35°	27	27	26	25	21	18
45°	7	9	9	9	7	5
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
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°	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1268.4	1267.5	1268.1	1268.7	1268.9
5°	1235.5	1234.3	1234.1	1236.6	1235.6
7.5°	1169.1	1167.4	1164.9	1170.7	1176.2
10°	1057.9	1056.0	1050.4	1053.2	1057.7
12.5°	893.7	887.6	887.5	896.3	895.1
15°	677.0	668.9	673.3	671.2	670.0
17.5°	455.3	452.1	458.1	456.3	448.5
20°	327.5	328.3	339.8	334.0	327.0
22.5°	239.0	241.9	255.5	240.6	235.2
25°	159.1	165.1	179.4	160.9	155.8
27.5°	97.9	100.6	115.1	96.6	93.8
30°	60.8	59.5	66.3	56.9	53.1
32.5°	39.9	38.2	40.4	36.2	33.1
35°	26.7	27.3	25.6	25.4	21.4
37.5°	16.7	19.2	16.9	18.0	13.8
40°	10.8	13.9	12.0	13.2	10.1
42.5°	8.8	10.7	9.9	10.5	9.1
45°	7.0	8.7	8.7	8.7	7.1
47.5°	3.9	5.8	7.4	6.0	4.1
50°	2.2	2.9	5.8	3.1	2.3
52.5°	1.5	1.7	4.0	1.8	1.5
55°	1.1	1.2	2.1	1.3	1.2
57.5°	0.9	0.9	1.1	0.9	0.9
60°	0.7	0.7	0.8	0.7	0.7
62.5°	0.5	0.5	0.6	0.5	0.5
65°	0.4	0.4	0.4	0.4	0.4
67.5°	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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)