

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: P778937

Luminaire Tested: LER4D05D010-EC4DR300210IC9035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778937
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: LER4D05D010-EC4DR300210IC9035-4LBS1H
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: 689.5 lumens
Efficiency: N/A
Efficacy: 91.9 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): 7.5
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



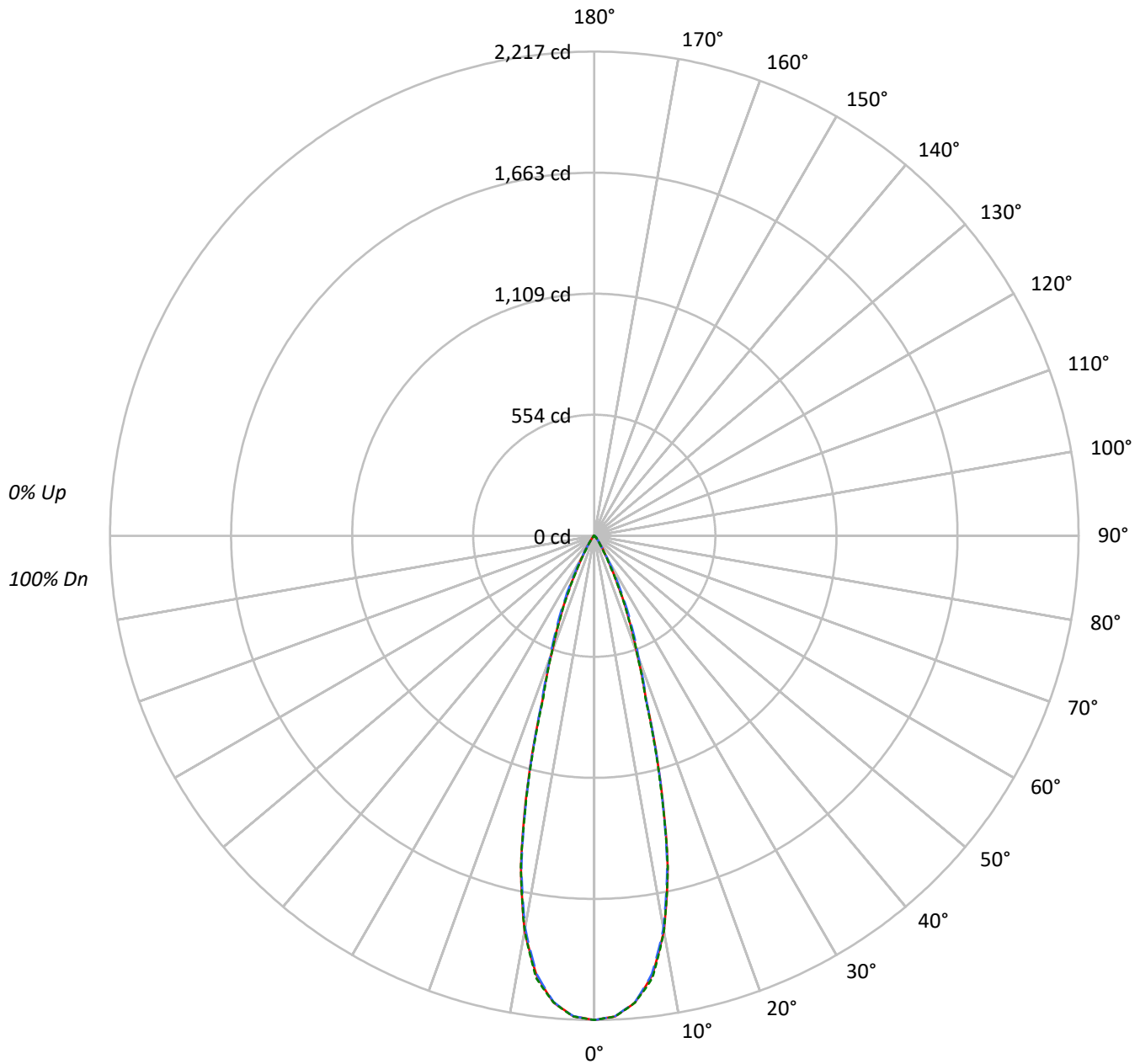
Downlight



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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
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	87	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°	169704	169704	169704
5°	164836	164644	164843
10°	142772	141761	142740
15°	93151	92652	92184
20°	46324	48059	46259
25°	23335	26308	22854
30°	9342	10182	8140
35°	4336	4149	3476
40°	1869	2078	1759
45°	1321	1635	1331
50°	453	1191	476
55°	254	494	280
60°	184	214	184
65°	109	109	109
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1635 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	28.3
10°-20°	314.0	45.5
20°-30°	135.7	19.7
30°-40°	30.9	4.5
40°-50°	10.6	1.5
50°-60°	2.6	0.4
60°-70°	0.7	0.1
70°-80°	0.1	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°	644.6	93.5
0°-40°	675.5	98.0
0°-60°	688.7	99.9
0°-90°	689.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2217	2217	2217	2217	2217	
5°	2145	2143	2143	2147	2145	195
15°	1176	1161	1169	1165	1163	315
25°	276	287	312	279	271	132
35°	46	47	44	44	37	31
45°	12	15	15	15	12	9
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2217.1	2217.1	2217.1	2217.1	2217.1
2.5°	2202.4	2200.9	2201.8	2202.9	2203.3
5°	2145.3	2143.2	2142.8	2147.2	2145.4
7.5°	2030.0	2027.0	2022.6	2032.7	2042.2
10°	1836.9	1833.6	1823.9	1828.7	1836.5
12.5°	1551.8	1541.2	1541.0	1556.2	1554.2
15°	1175.5	1161.4	1169.2	1165.4	1163.3
17.5°	790.5	785.1	795.5	792.3	778.8
20°	568.7	570.1	590.0	579.9	567.9
22.5°	414.9	420.1	443.7	417.9	408.4
25°	276.3	286.7	311.5	279.4	270.6
27.5°	169.9	174.7	199.8	167.8	162.9
30°	105.7	103.3	115.2	98.8	92.1
32.5°	69.3	66.3	70.1	62.9	57.5
35°	46.4	47.3	44.4	44.1	37.2
37.5°	28.9	33.3	29.4	31.3	23.9
40°	18.7	24.2	20.8	23.0	17.6
42.5°	15.4	18.6	17.1	18.2	15.7
45°	12.2	15.1	15.1	15.1	12.3
47.5°	6.8	10.1	12.9	10.3	7.2
50°	3.8	5.1	10.0	5.3	4.0
52.5°	2.6	2.9	6.9	3.0	2.7
55°	1.9	2.1	3.7	2.2	2.1
57.5°	1.5	1.6	1.9	1.6	1.5
60°	1.2	1.2	1.4	1.3	1.2
62.5°	0.9	0.9	1.0	0.9	0.9
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	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)