

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P778000

Luminaire Tested: LERS4D10D010-EC4DR300210IC9035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778000
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: LERS4D10D010-EC4DR300210IC9035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1016.8 lumens
Efficiency: N/A
Efficacy: 86.9 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): 11.7
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



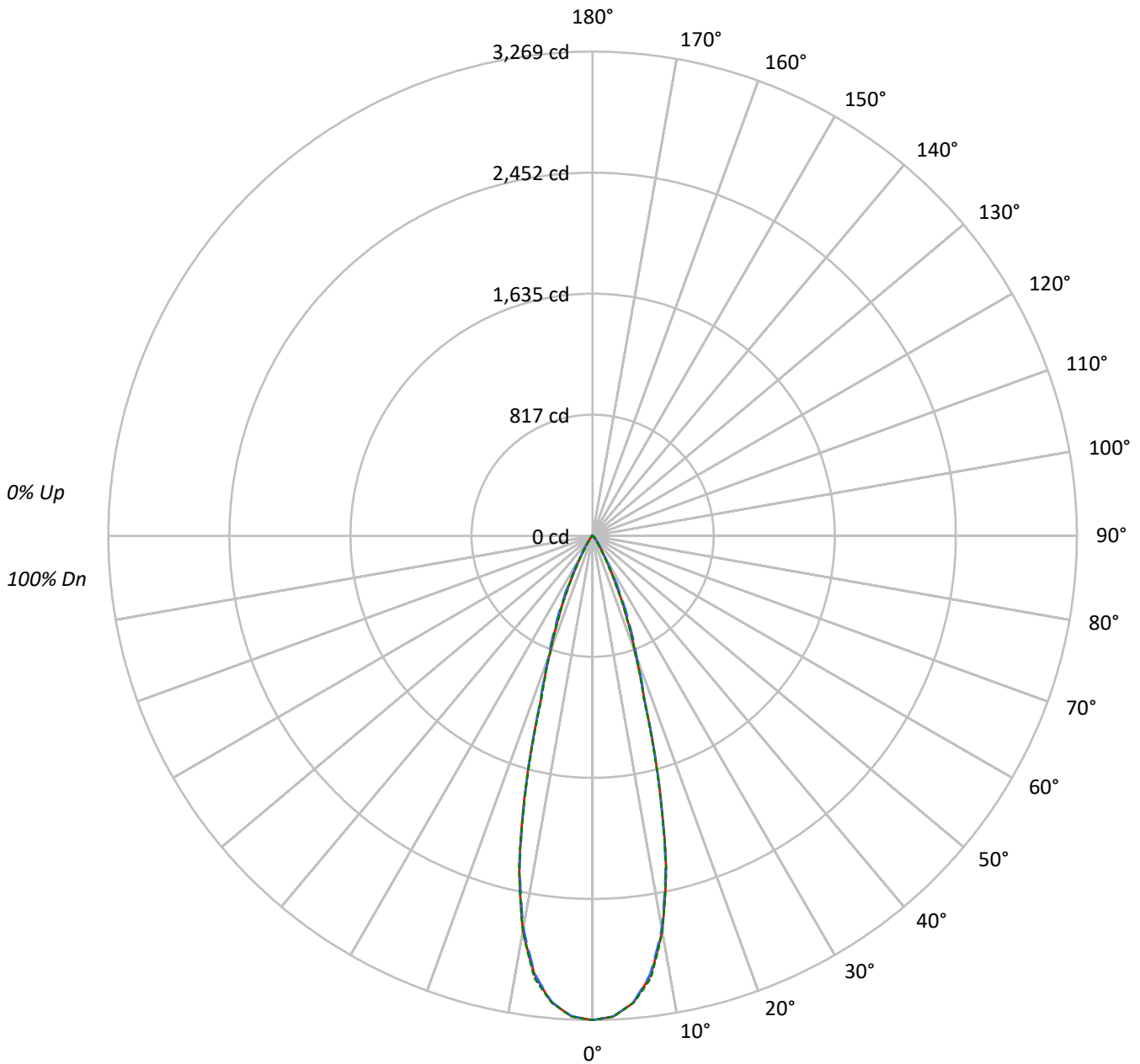
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	250251	250251	250251
5°	243070	242786	243078
10°	210532	209047	210485
15°	137361	136624	135942
20°	68301	70867	68211
25°	34407	38799	33707
30°	13770	15008	12003
35°	6391	6120	5130
40°	2758	3068	2598
45°	1948	2414	1970
50°	667	1762	714
55°	387	721	400
60°	276	321	276
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2414 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	28.3
10°-20°	463.0	45.5
20°-30°	200.1	19.7
30°-40°	45.6	4.5
40°-50°	15.7	1.5
50°-60°	3.8	0.4
60°-70°	1.0	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°	950.6	93.5
0°-40°	996.2	98.0
0°-60°	1015.7	99.9
0°-90°	1016.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1016.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3269	3269	3269	3269	3269	
5°	3164	3160	3160	3166	3164	288
15°	1733	1712	1724	1718	1716	464
25°	407	423	459	412	399	195
35°	68	70	66	65	55	46
45°	18	22	22	22	18	13
55°	3	3	5	3	3	3
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°	3269.4	3269.4	3269.4	3269.4	3269.4
2.5°	3247.8	3245.5	3246.8	3248.4	3249.0
5°	3163.5	3160.4	3159.8	3166.4	3163.6
7.5°	2993.5	2989.1	2982.6	2997.5	3011.5
10°	2708.7	2703.9	2689.6	2696.7	2708.1
12.5°	2288.3	2272.8	2272.4	2294.9	2291.9
15°	1733.4	1712.5	1724.1	1718.5	1715.5
17.5°	1165.7	1157.6	1173.1	1168.4	1148.4
20°	838.5	840.6	870.0	855.2	837.4
22.5°	611.9	619.4	654.3	616.2	602.3
25°	407.4	422.8	459.4	412.1	399.1
27.5°	250.6	257.7	294.7	247.3	240.3
30°	155.8	152.3	169.8	145.8	135.8
32.5°	102.3	97.7	103.4	92.8	84.7
35°	68.4	69.8	65.5	65.0	54.9
37.5°	42.7	49.1	43.3	46.2	35.3
40°	27.6	35.6	30.7	33.9	26.0
42.5°	22.6	27.4	25.2	26.8	23.1
45°	18.0	22.3	22.3	22.3	18.2
47.5°	10.0	15.0	19.1	15.2	10.6
50°	5.6	7.6	14.8	7.8	6.0
52.5°	3.8	4.4	10.1	4.5	4.0
55°	2.9	3.0	5.4	3.2	3.0
57.5°	2.2	2.4	2.9	2.4	2.2
60°	1.8	1.8	2.1	1.9	1.8
62.5°	1.3	1.3	1.4	1.3	1.3
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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— 0°-180° - - 45°-225° - - - - 90°-270°

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