

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: P777382

Luminaire Tested: LERS4D05D010-EC4DR300210IC9040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777382
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: LERS4D05D010-EC4DR300210IC9040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 744.0 lumens
Efficiency: N/A
Efficacy: 99.2 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



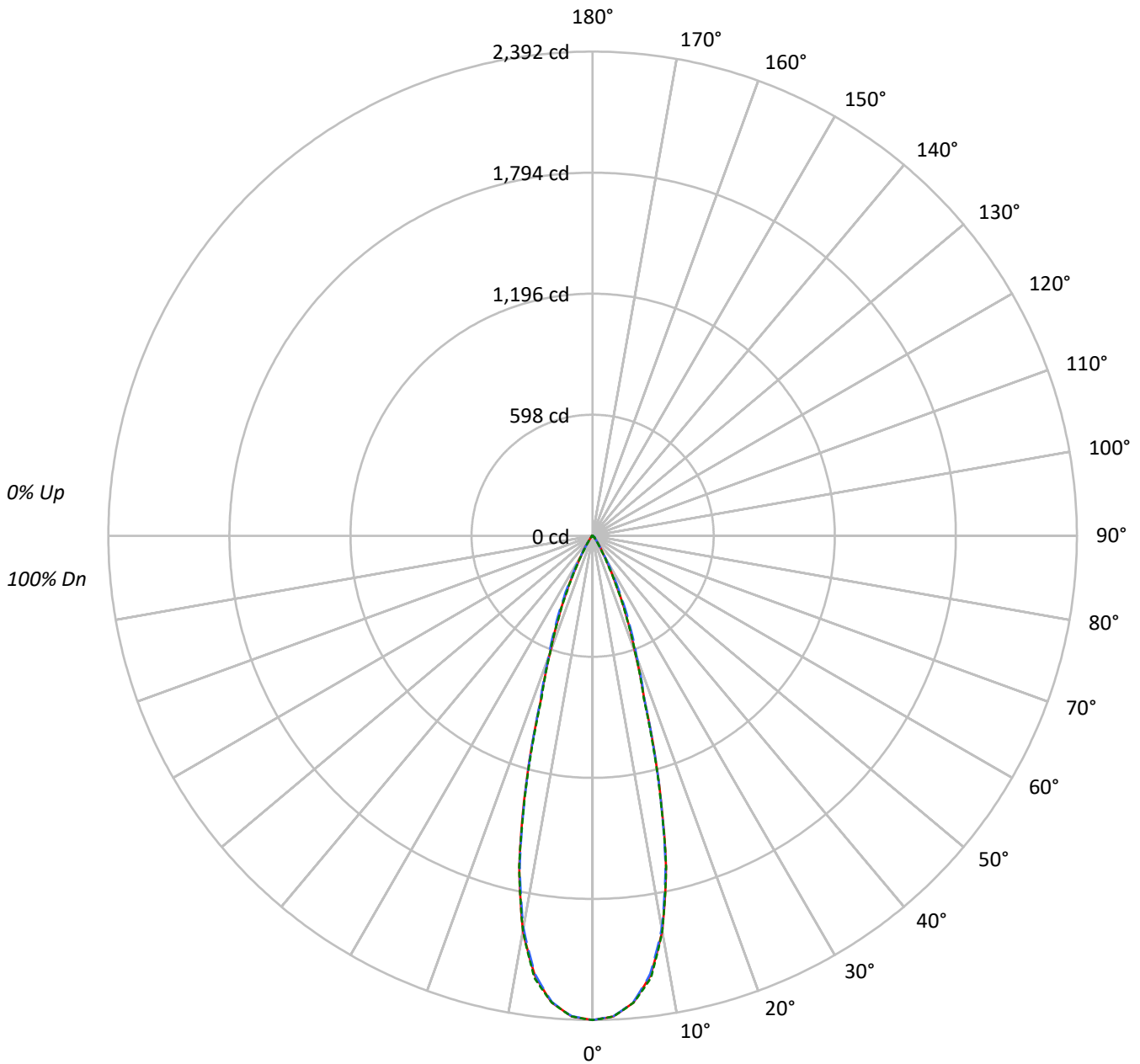
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	87	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°	183122	183122	183122
5°	177859	177652	177875
10°	154057	152969	154018
15°	100513	99974	99474
20°	49981	51855	49916
25°	25176	28394	24661
30°	10085	10986	8777
35°	4672	4476	3756
40°	2018	2248	1898
45°	1429	1764	1440
50°	488	1286	524
55°	280	534	294
60°	199	230	199
65°	127	127	127
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: 1764 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	28.3
10°-20°	338.8	45.5
20°-30°	146.4	19.7
30°-40°	33.4	4.5
40°-50°	11.5	1.5
50°-60°	2.8	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°	695.6	93.5
0°-40°	728.9	98.0
0°-60°	743.2	99.9
0°-90°	744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2392	2392	2392	2392	2392	
5°	2315	2313	2312	2317	2315	211
15°	1268	1253	1262	1258	1255	340
25°	298	309	336	302	292	143
35°	50	51	48	48	40	34
45°	13	16	16	16	13	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2392.4	2392.4	2392.4	2392.4	2392.4
2.5°	2376.5	2374.8	2375.8	2376.9	2377.4
5°	2314.8	2312.6	2312.1	2317.0	2315.0
7.5°	2190.4	2187.2	2182.4	2193.4	2203.6
10°	1982.1	1978.6	1968.1	1973.2	1981.6
12.5°	1674.4	1663.0	1662.8	1679.3	1677.0
15°	1268.4	1253.2	1261.6	1257.5	1255.3
17.5°	853.0	847.1	858.4	855.0	840.3
20°	613.6	615.1	636.6	625.8	612.8
22.5°	447.8	453.3	478.8	450.9	440.7
25°	298.1	309.4	336.2	301.5	292.0
27.5°	183.3	188.5	215.7	181.0	175.8
30°	114.1	111.4	124.3	106.6	99.3
32.5°	74.8	71.5	75.6	67.9	62.0
35°	50.0	51.1	47.9	47.6	40.2
37.5°	31.2	35.9	31.7	33.8	25.8
40°	20.2	26.1	22.5	24.8	19.0
42.5°	16.6	20.1	18.4	19.6	16.9
45°	13.2	16.3	16.3	16.3	13.3
47.5°	7.3	10.9	14.0	11.2	7.7
50°	4.1	5.5	10.8	5.7	4.4
52.5°	2.8	3.2	7.4	3.3	2.9
55°	2.1	2.2	4.0	2.3	2.2
57.5°	1.7	1.8	2.1	1.8	1.7
60°	1.3	1.3	1.5	1.4	1.3
62.5°	0.9	0.9	1.0	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7
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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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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