

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: P777364

Luminaire Tested: LERS4D05D010-EC4DR300210IC9024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777364
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-EC4DR300210IC9024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 534.2 lumens
Efficiency: N/A
Efficacy: 71.2 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 (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



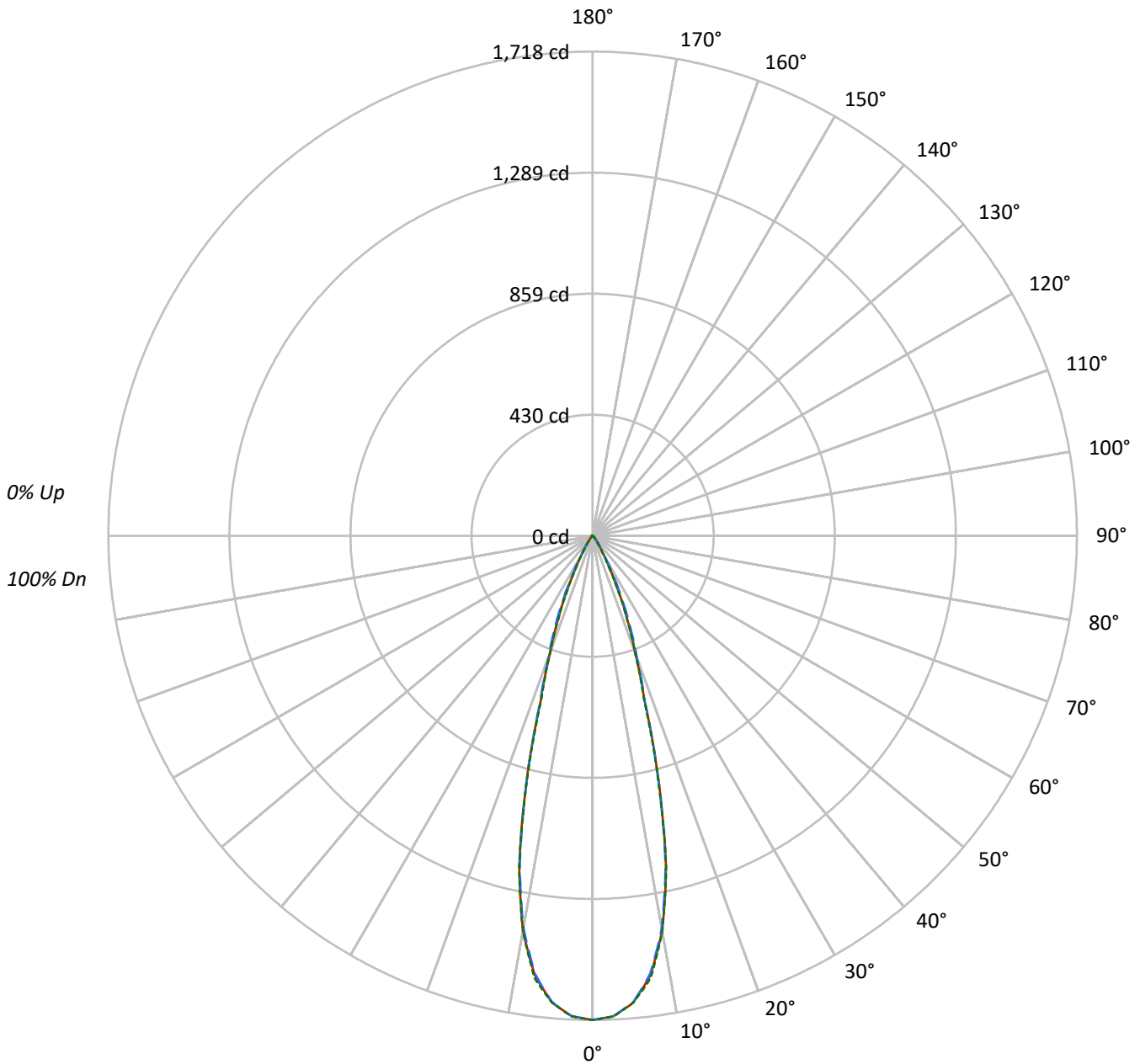
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	131494	131494	131494
5°	127716	127570	127724
10°	110625	109840	110602
15°	72175	71787	71430
20°	35889	37242	35841
25°	18082	20388	17710
30°	7239	7884	6302
35°	3355	3214	2691
40°	1449	1609	1359
45°	1028	1267	1028
50°	357	917	369
55°	200	387	214
60°	138	168	138
65°	91	91	91
70°	45	45	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: 1267 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	28.3
10°-20°	243.3	45.5
20°-30°	105.1	19.7
30°-40°	24.0	4.5
40°-50°	8.2	1.5
50°-60°	2.0	0.4
60°-70°	0.5	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°	499.5	93.5
0°-40°	523.4	98.0
0°-60°	533.7	99.9
0°-90°	534.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	534.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1662	1661	1660	1664	1662	151
15°	911	900	906	903	901	244
25°	214	222	241	216	210	102
35°	36	37	34	34	29	24
45°	10	12	12	12	10	7
55°	2	2	3	2	2	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°	1717.9	1717.9	1717.9	1717.9	1717.9
2.5°	1706.5	1705.3	1706.0	1706.9	1707.2
5°	1662.2	1660.6	1660.3	1663.7	1662.3
7.5°	1572.9	1570.6	1567.2	1575.0	1582.4
10°	1423.3	1420.7	1413.2	1417.0	1423.0
12.5°	1202.4	1194.2	1194.0	1205.8	1204.2
15°	910.8	899.9	905.9	903.0	901.4
17.5°	612.5	608.3	616.4	613.9	603.4
20°	440.6	441.7	457.2	449.4	440.0
22.5°	321.5	325.5	343.8	323.8	316.4
25°	214.1	222.1	241.4	216.5	209.7
27.5°	131.7	135.4	154.9	129.9	126.3
30°	81.9	80.0	89.2	76.6	71.3
32.5°	53.7	51.3	54.3	48.8	44.5
35°	35.9	36.7	34.4	34.1	28.8
37.5°	22.5	25.8	22.7	24.3	18.6
40°	14.5	18.7	16.1	17.8	13.6
42.5°	11.9	14.4	13.2	14.1	12.1
45°	9.5	11.7	11.7	11.7	9.5
47.5°	5.2	7.8	10.0	8.0	5.6
50°	3.0	4.0	7.7	4.1	3.1
52.5°	2.0	2.3	5.3	2.3	2.1
55°	1.5	1.6	2.9	1.7	1.6
57.5°	1.2	1.3	1.5	1.3	1.2
60°	0.9	0.9	1.1	1.0	0.9
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.2	0.2	0.2	0.2
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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— 0°-180° - - 45°-225° - - - - 90°-270°

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