

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: P777380

Luminaire Tested: LERS4D05D010-EC4DR300210IC9040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777380
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-EC4DR300210IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 664.3 lumens
Efficiency: N/A
Efficacy: 88.6 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



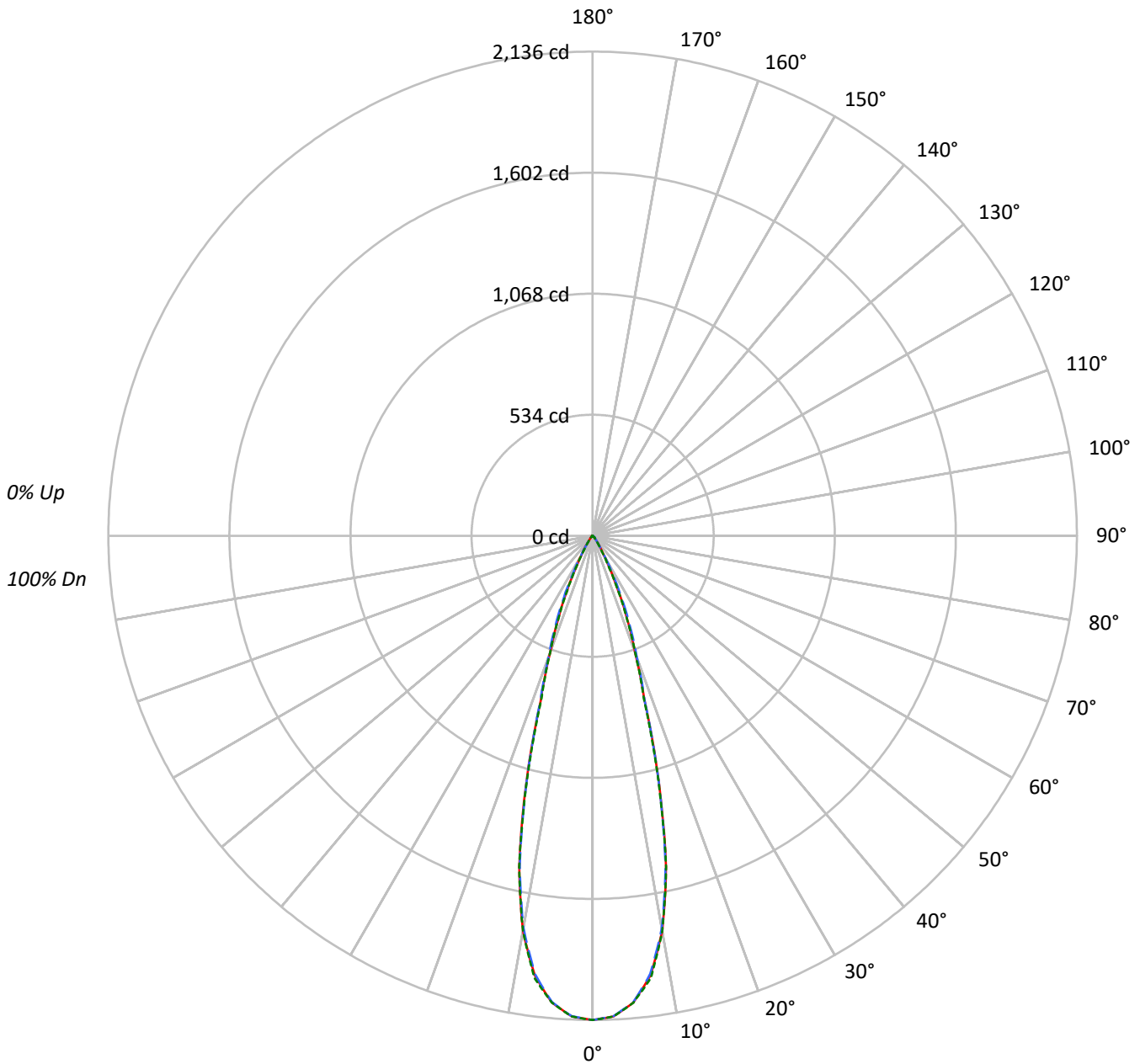
Downlight



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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	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°	163512	163512	163512
5°	158820	158635	158827
10°	137556	136593	137525
15°	89751	89268	88824
20°	44630	46299	44573
25°	22482	25354	22018
30°	8998	9811	7849
35°	4177	3999	3355
40°	1799	2008	1699
45°	1267	1580	1288
50°	441	1143	464
55°	254	480	267
60°	168	214	168
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: 1580 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	28.3
10°-20°	302.5	45.5
20°-30°	130.7	19.7
30°-40°	29.8	4.5
40°-50°	10.2	1.5
50°-60°	2.5	0.4
60°-70°	0.6	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°	621.1	93.5
0°-40°	650.9	98.0
0°-60°	663.6	99.9
0°-90°	664.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	664.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2067	2065	2065	2069	2067	188
15°	1133	1119	1126	1123	1121	303
25°	266	276	300	269	261	127
35°	45	46	43	42	36	30
45°	12	15	15	15	12	8
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°	2136.2	2136.2	2136.2	2136.2	2136.2
2.5°	2122.0	2120.5	2121.4	2122.4	2122.9
5°	2067.0	2065.0	2064.6	2068.9	2067.1
7.5°	1955.9	1953.1	1948.8	1958.5	1967.7
10°	1769.8	1766.7	1757.4	1762.0	1769.4
12.5°	1495.2	1485.0	1484.8	1499.5	1497.5
15°	1132.6	1119.0	1126.5	1122.9	1120.9
17.5°	761.6	756.4	766.4	763.4	750.3
20°	547.9	549.2	568.4	558.8	547.2
22.5°	399.8	404.7	427.5	402.6	393.5
25°	266.2	276.3	300.2	269.2	260.7
27.5°	163.7	168.3	192.6	161.6	157.0
30°	101.8	99.5	111.0	95.2	88.8
32.5°	66.8	63.9	67.6	60.6	55.4
35°	44.7	45.6	42.8	42.5	35.9
37.5°	27.9	32.1	28.3	30.2	23.1
40°	18.0	23.3	20.1	22.1	17.0
42.5°	14.8	17.9	16.4	17.5	15.1
45°	11.7	14.6	14.6	14.6	11.9
47.5°	6.5	9.7	12.5	10.0	6.9
50°	3.7	4.9	9.6	5.2	3.9
52.5°	2.5	2.8	6.6	2.9	2.6
55°	1.9	2.0	3.6	2.1	2.0
57.5°	1.5	1.5	1.9	1.5	1.5
60°	1.1	1.1	1.4	1.3	1.1
62.5°	0.9	0.9	0.9	0.9	0.9
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.4	0.4	0.4	0.4
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

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

Scaled Data Report



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Scaled Data Report





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

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