

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: P751425

Luminaire Tested: LD4D65D010-EU4DR3055659024-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751425
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: LD4D65D010-EU4DR3055659024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

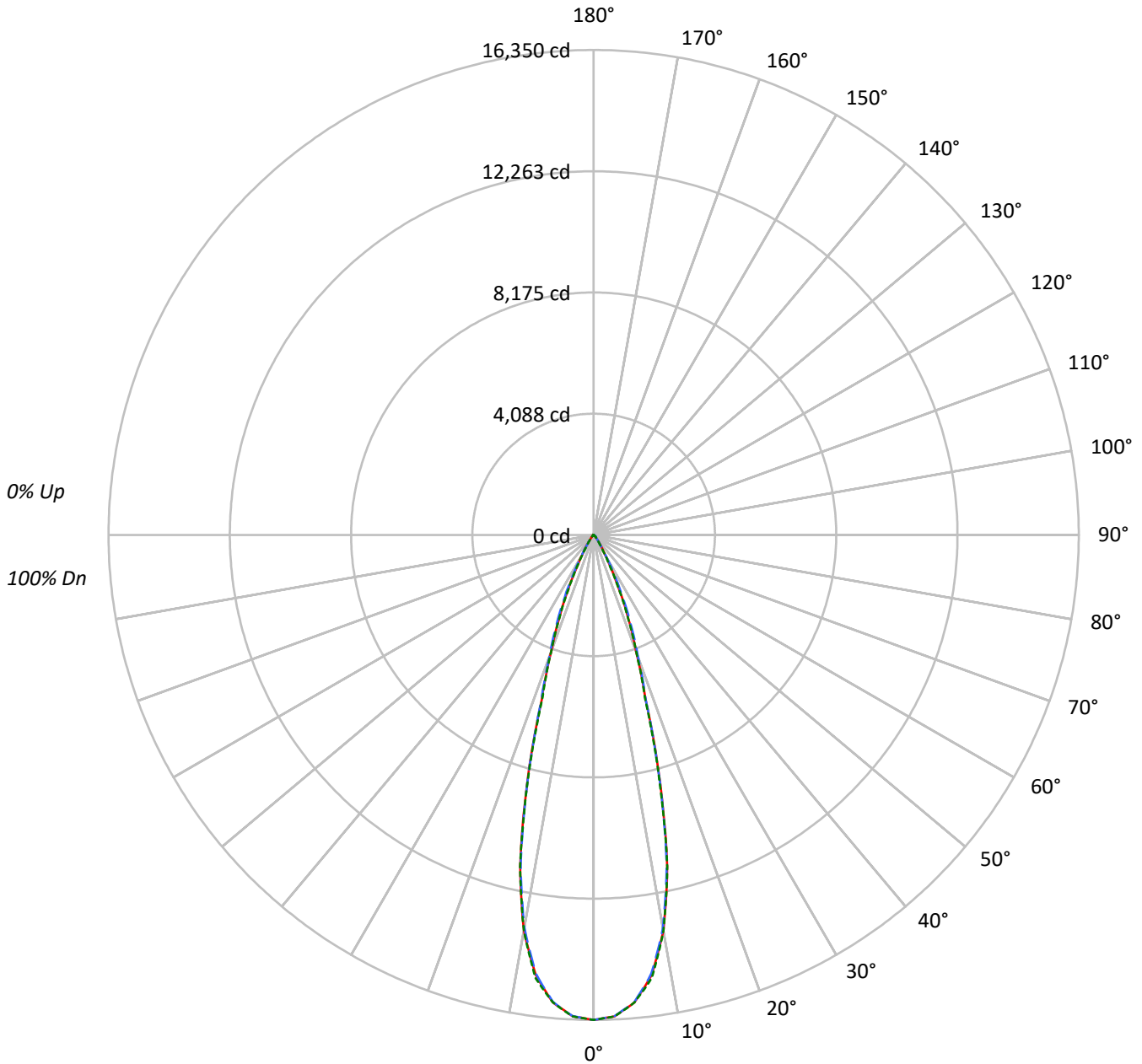
Lumens per Lamp: N/A
Luminaire Lumens: 5084.8 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 72.8
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



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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	86	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°	1251500	1251500	1251500
5°	1215573	1214151	1215634
10°	1052868	1045445	1052619
15°	686947	683254	679823
20°	341585	354406	341129
25°	172071	194030	168541
30°	68896	75065	60022
35°	31957	30602	25650
40°	13799	15318	12990
45°	9732	12081	9818
50°	3346	8800	3537
55°	1922	3643	2042
60°	1347	1592	1347
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12081 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1437.8	28.3
10°-20°	2315.5	45.5
20°-30°	1000.6	19.7
30°-40°	228.1	4.5
40°-50°	78.3	1.5
50°-60°	19.1	0.4
60°-70°	4.9	0.1
70°-80°	0.5	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°	4753.9	93.5
0°-40°	4981.9	98.0
0°-60°	5079.4	99.9
0°-90°	5084.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5084.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16350	16350	16350	16350	16350	
5°	15820	15805	15802	15835	15821	1439
15°	8669	8564	8622	8594	8579	2321
25°	2037	2114	2297	2061	1996	975
35°	342	349	328	325	274	232
45°	90	112	112	112	91	64
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
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°	16350.2	16350.2	16350.2	16350.2	16350.2
2.5°	16241.9	16230.6	16237.0	16245.1	16248.3
5°	15820.4	15805.2	15801.9	15834.9	15821.2
7.5°	14970.3	14948.6	14915.7	14990.4	15060.2
10°	13546.2	13522.2	13450.7	13486.0	13543.0
12.5°	11443.9	11366.0	11364.4	11476.8	11461.5
15°	8668.8	8564.4	8622.2	8594.1	8578.9
17.5°	5829.5	5789.4	5866.4	5843.1	5742.8
20°	4193.5	4204.0	4350.9	4277.0	4187.9
22.5°	3060.0	3097.8	3272.0	3081.7	3011.9
25°	2037.4	2114.4	2297.4	2060.6	1995.6
27.5°	1253.1	1288.4	1473.8	1237.0	1201.7
30°	779.5	761.8	849.3	728.9	679.1
32.5°	511.3	488.9	517.0	464.0	423.8
35°	342.0	349.2	327.5	325.1	274.5
37.5°	213.5	245.6	216.7	231.2	176.6
40°	138.1	178.2	153.3	169.4	130.0
42.5°	113.2	137.3	126.0	134.1	115.6
45°	89.9	111.6	111.6	111.6	90.7
47.5°	49.8	74.7	95.5	76.3	53.0
50°	28.1	37.7	73.9	39.3	29.7
52.5°	19.3	21.7	50.6	22.5	20.1
55°	14.4	15.3	27.3	16.1	15.3
57.5°	11.2	12.0	14.4	12.0	11.2
60°	8.8	8.8	10.4	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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