

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: P752255

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752255
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: LD4D70BD010-EU4DR3070959035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 5082.9 lumens
Efficiency: N/A
Efficacy: 76.3 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')

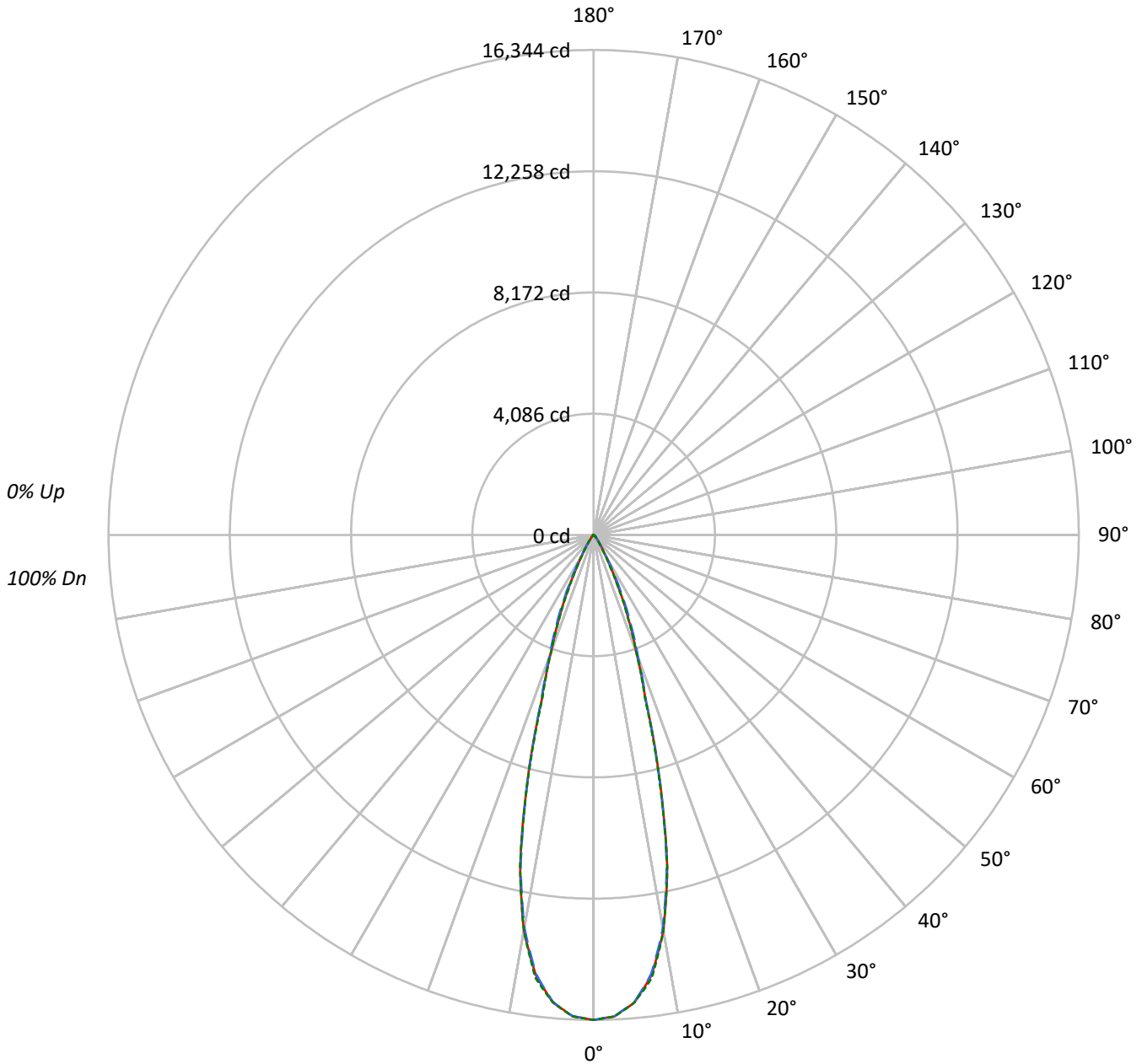
CIE Type: Direct

Input Watts (W): 66.6
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



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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	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°	1251041	1251041	1251041
5°	1215127	1213706	1215189
10°	1052479	1045056	1052230
15°	686693	683000	679569
20°	341463	354267	340998
25°	172004	193962	168482
30°	68869	75039	60004
35°	31939	30593	25641
40°	13789	15318	12990
45°	9732	12070	9818
50°	3346	8788	3537
55°	1922	3643	2028
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: 12070 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1437.2	28.3
10°-20°	2314.7	45.5
20°-30°	1000.2	19.7
30°-40°	228.0	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°	4752.1	93.5
0°-40°	4980.1	98.0
0°-60°	5077.5	99.9
0°-90°	5082.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5082.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16344	16344	16344	16344	16344	
5°	15815	15799	15796	15829	15815	1438
15°	8666	8561	8619	8591	8576	2320
25°	2037	2114	2297	2060	1995	975
35°	342	349	327	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°	16344.2	16344.2	16344.2	16344.2	16344.2
2.5°	16235.8	16224.6	16231.0	16239.1	16242.3
5°	15814.6	15799.3	15796.1	15829.0	15815.4
7.5°	14964.8	14943.1	14910.2	14984.8	15054.6
10°	13541.2	13517.2	13445.7	13481.1	13538.0
12.5°	11439.6	11361.8	11360.2	11472.5	11457.3
15°	8665.6	8561.3	8619.0	8591.0	8575.7
17.5°	5827.3	5787.2	5864.3	5841.0	5740.7
20°	4192.0	4202.4	4349.2	4275.4	4186.3
22.5°	3058.9	3096.6	3270.8	3080.6	3010.8
25°	2036.6	2113.6	2296.6	2059.9	1994.9
27.5°	1252.6	1287.9	1473.3	1236.6	1201.3
30°	779.2	761.5	849.0	728.6	678.9
32.5°	511.2	488.7	516.8	463.8	423.7
35°	341.8	349.1	327.4	325.0	274.4
37.5°	213.5	245.5	216.7	231.1	176.5
40°	138.0	178.1	153.3	169.3	130.0
42.5°	113.1	137.2	126.0	134.0	115.6
45°	89.9	111.5	111.5	111.5	90.7
47.5°	49.8	74.6	95.5	76.2	53.0
50°	28.1	37.7	73.8	39.3	29.7
52.5°	19.3	21.7	50.6	22.5	20.1
55°	14.4	15.2	27.3	16.0	15.2
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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