

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: P752996

Luminaire Tested: LD4D75BD010-EU4DR3070959024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752996
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: LD4D75BD010-EU4DR3070959024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 4555.5 lumens
Efficiency: N/A
Efficacy: 62.9 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')

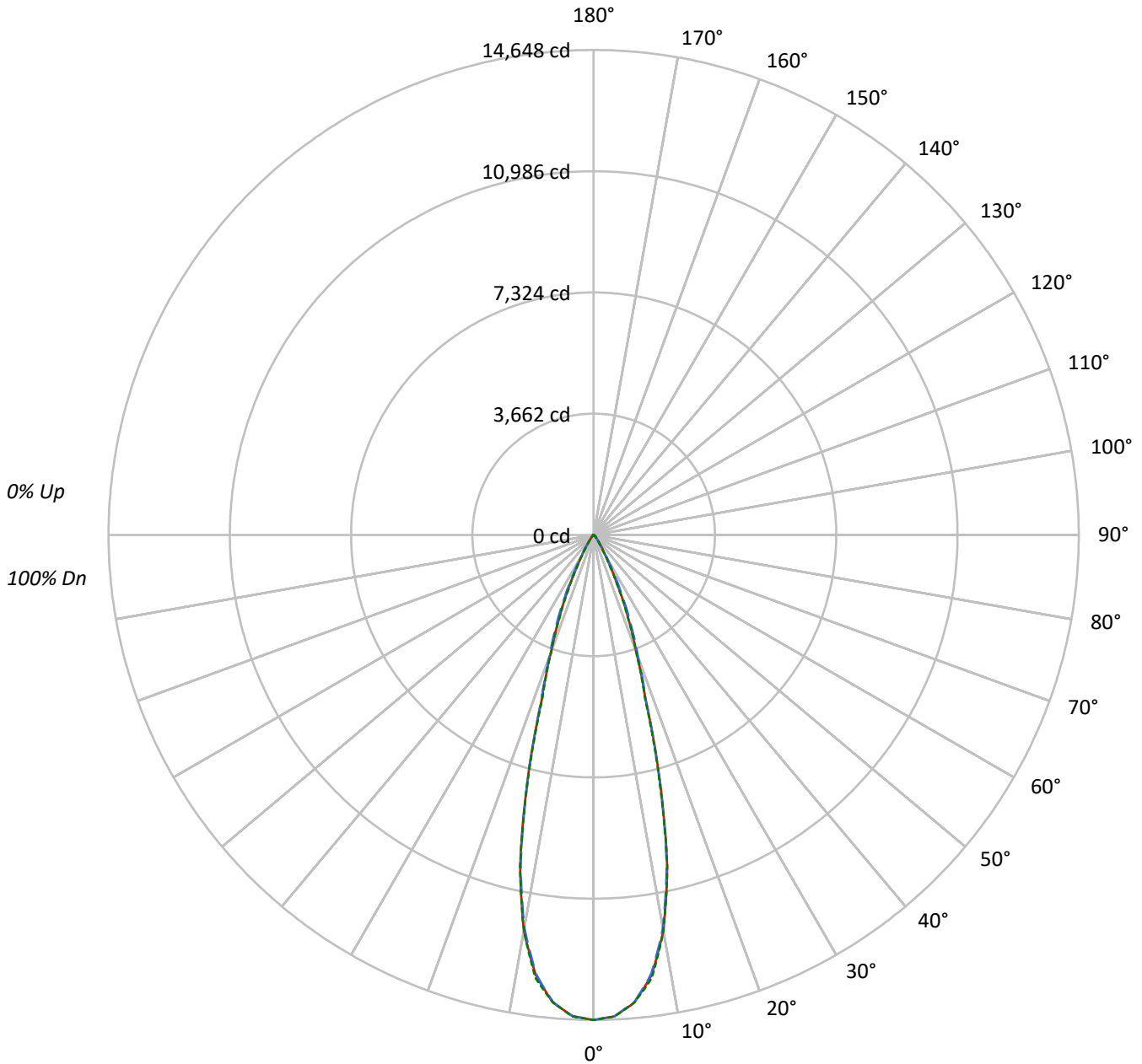
CIE Type: Direct

Input Watts (W): 72.4
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°	1121223	1121223	1121223
5°	1089032	1087764	1089086
10°	943269	936615	943043
15°	615437	612133	609050
20°	306029	317506	305614
25°	154158	173836	150999
30°	61719	67252	53773
35°	28631	27416	22987
40°	12360	13729	11641
45°	8714	10825	8801
50°	3001	7883	3168
55°	1721	3270	1828
60°	1209	1424	1209
65°	779	779	779
70°	492	313	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10825 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1288.1	28.3
10°-20°	2074.5	45.5
20°-30°	896.4	19.7
30°-40°	204.3	4.5
40°-50°	70.2	1.5
50°-60°	17.1	0.4
60°-70°	4.4	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°	4259.0	93.5
0°-40°	4463.3	98.0
0°-60°	4550.6	99.9
0°-90°	4555.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14648	14648	14648	14648	14648	
5°	14174	14160	14157	14186	14174	1289
15°	7766	7673	7725	7700	7686	2080
25°	1825	1894	2058	1846	1788	874
35°	306	313	293	291	246	208
45°	80	100	100	100	81	57
55°	13	14	24	14	14	13
65°	4	4	4	4	4	4
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°	14648.2	14648.2	14648.2	14648.2	14648.2
2.5°	14551.1	14541.0	14546.8	14554.0	14556.8
5°	14173.5	14159.9	14157.0	14186.5	14174.2
7.5°	13411.9	13392.5	13363.0	13429.9	13492.5
10°	12136.1	12114.5	12050.5	12082.2	12133.2
12.5°	10252.6	10182.8	10181.4	10282.1	10268.4
15°	7766.4	7672.9	7724.7	7699.5	7685.8
17.5°	5222.7	5186.7	5255.7	5234.9	5145.0
20°	3757.0	3766.3	3897.9	3831.8	3751.9
22.5°	2741.5	2775.3	2931.4	2760.9	2698.3
25°	1825.3	1894.3	2058.3	1846.1	1787.9
27.5°	1122.6	1154.3	1320.4	1108.3	1076.6
30°	698.3	682.5	760.9	653.0	608.4
32.5°	458.1	438.0	463.1	415.7	379.7
35°	306.4	312.8	293.4	291.3	246.0
37.5°	191.3	220.1	194.2	207.1	158.2
40°	123.7	159.7	137.4	151.7	116.5
42.5°	101.4	123.0	112.9	120.1	103.6
45°	80.5	100.0	100.0	100.0	81.3
47.5°	44.6	66.9	85.6	68.3	47.5
50°	25.2	33.8	66.2	35.2	26.6
52.5°	17.3	19.4	45.3	20.1	18.0
55°	12.9	13.7	24.5	14.4	13.7
57.5°	10.1	10.8	12.9	10.8	10.1
60°	7.9	7.9	9.3	8.6	7.9
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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