

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: P751436

Luminaire Tested: LD4D65D010-EU4DR3055659024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751436
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-EU4DR3055659024-4LBSQW1B
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: 4228.4 lumens
Efficiency: N/A
Efficacy: 58.1 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

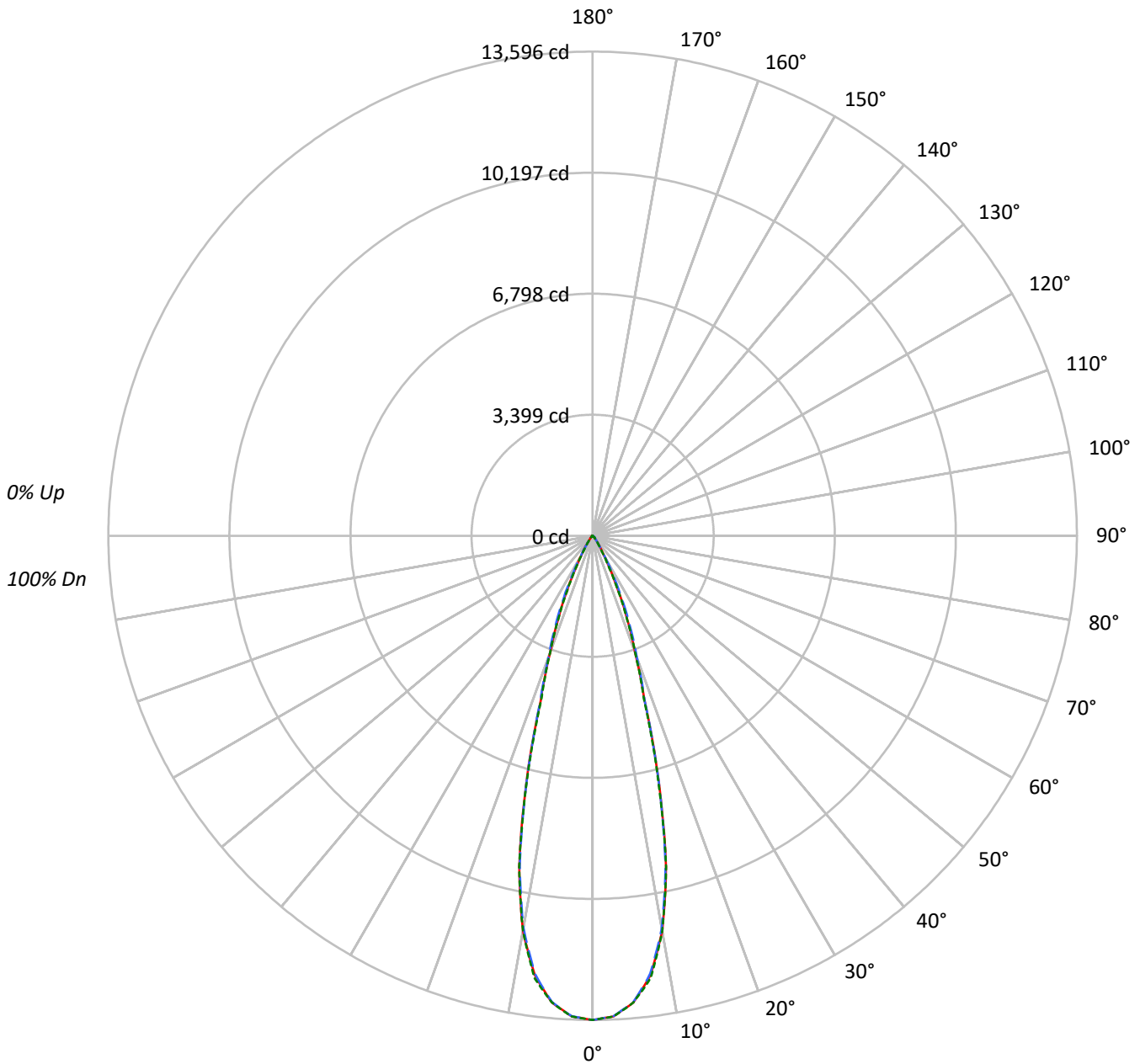
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1040715	1040715	1040715
5°	1010844	1009661	1010890
10°	875540	869369	875338
15°	571251	568176	565324
20°	284053	294715	283678
25°	143086	161354	140155
30°	57291	62426	49911
35°	26575	25454	21333
40°	11471	12740	10801
45°	8097	10045	8162
50°	2786	7312	2941
55°	1601	3029	1695
60°	1118	1332	1118
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10045 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1195.6	28.3
10°-20°	1925.5	45.5
20°-30°	832.1	19.7
30°-40°	189.7	4.5
40°-50°	65.1	1.5
50°-60°	15.9	0.4
60°-70°	4.1	0.1
70°-80°	0.4	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°	3953.2	93.5
0°-40°	4142.9	98.0
0°-60°	4223.9	99.9
0°-90°	4228.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4228.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13596	13596	13596	13596	13596	
5°	13156	13143	13140	13168	13156	1197
15°	7209	7122	7170	7147	7134	1930
25°	1694	1758	1910	1714	1660	811
35°	284	290	272	270	228	193
45°	75	93	93	93	75	53
55°	12	13	23	13	13	12
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°	13596.4	13596.4	13596.4	13596.4	13596.4
2.5°	13506.3	13497.0	13502.3	13509.0	13511.7
5°	13155.9	13143.2	13140.5	13167.9	13156.5
7.5°	12448.9	12430.9	12403.6	12465.6	12523.7
10°	11264.7	11244.7	11185.3	11214.7	11262.1
12.5°	9516.4	9451.7	9450.4	9543.8	9531.1
15°	7208.8	7122.0	7170.0	7146.7	7134.0
17.5°	4847.7	4814.3	4878.4	4859.0	4775.6
20°	3487.2	3495.9	3618.1	3556.7	3482.6
22.5°	2544.7	2576.0	2720.9	2562.7	2504.6
25°	1694.2	1758.3	1910.5	1713.6	1659.5
27.5°	1042.0	1071.4	1225.6	1028.7	999.3
30°	648.2	633.5	706.3	606.1	564.7
32.5°	425.2	406.5	429.9	385.8	352.5
35°	284.4	290.4	272.4	270.4	228.3
37.5°	177.6	204.3	180.2	192.3	146.9
40°	114.8	148.2	127.5	140.9	108.1
42.5°	94.1	114.1	104.8	111.5	96.1
45°	74.8	92.8	92.8	92.8	75.4
47.5°	41.4	62.1	79.4	63.4	44.1
50°	23.4	31.4	61.4	32.7	24.7
52.5°	16.0	18.0	42.1	18.7	16.7
55°	12.0	12.7	22.7	13.4	12.7
57.5°	9.3	10.0	12.0	10.0	9.3
60°	7.3	7.3	8.7	8.0	7.3
62.5°	5.3	5.3	6.0	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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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