

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: P751449

Luminaire Tested: LD4D65D010-EU4DR3055659027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751449
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-EU4DR3055659027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

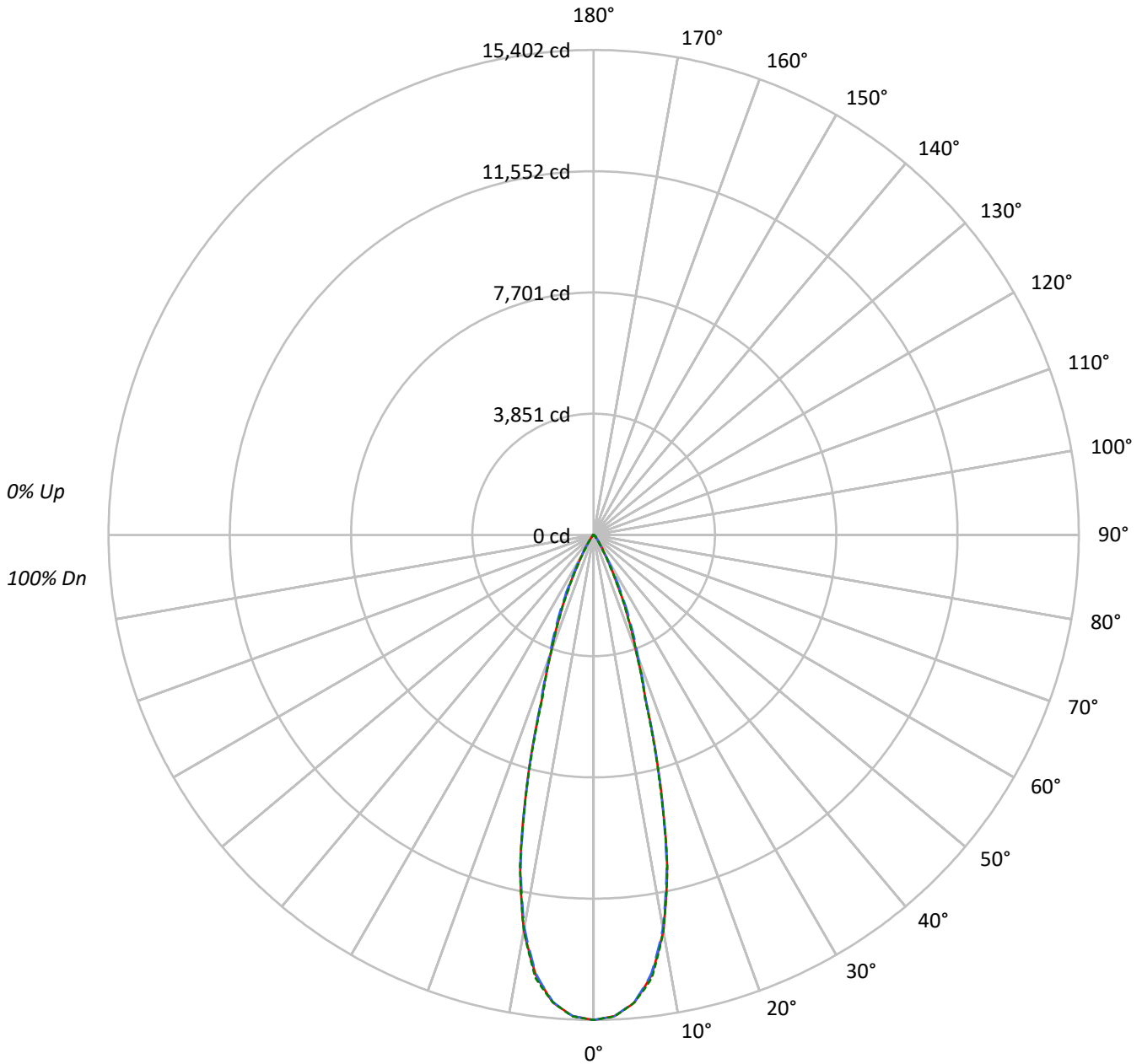
Lumens per Lamp: N/A
Luminaire Lumens: 4789.9 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	1178906	1178906	1178906
5°	1145061	1143724	1145122
10°	991800	984804	991559
15°	647095	643624	640383
20°	321775	333847	321343
25°	162089	182780	158769
30°	64892	70708	56540
35°	30098	28827	24164
40°	13000	14428	12240
45°	9169	11377	9244
50°	3156	8288	3334
55°	1815	3430	1922
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1354.4	28.3
10°-20°	2181.2	45.5
20°-30°	942.6	19.7
30°-40°	214.8	4.5
40°-50°	73.8	1.5
50°-60°	18.0	0.4
60°-70°	4.6	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°	4478.1	93.5
0°-40°	4692.9	98.0
0°-60°	4784.7	99.9
0°-90°	4789.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4789.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15402	15402	15402	15402	15402	
5°	14903	14888	14885	14916	14904	1355
15°	8166	8068	8122	8096	8081	2187
25°	1919	1992	2164	1941	1880	919
35°	322	329	308	306	259	218
45°	85	105	105	105	85	60
55°	14	14	26	15	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°	15401.8	15401.8	15401.8	15401.8	15401.8
2.5°	15299.7	15289.1	15295.2	15302.7	15305.7
5°	14902.7	14888.3	14885.3	14916.3	14903.5
7.5°	14101.9	14081.5	14050.5	14120.8	14186.6
10°	12760.5	12737.8	12670.5	12703.7	12757.4
12.5°	10780.0	10706.7	10705.2	10811.0	10796.7
15°	8165.9	8067.6	8122.1	8095.6	8081.2
17.5°	5491.3	5453.5	5526.1	5504.2	5409.7
20°	3950.3	3960.1	4098.5	4028.9	3945.0
22.5°	2882.5	2918.1	3082.2	2903.0	2837.2
25°	1919.2	1991.8	2164.2	1941.1	1879.9
27.5°	1180.4	1213.7	1388.3	1165.3	1132.0
30°	734.2	717.6	800.0	686.6	639.7
32.5°	481.7	460.5	487.0	437.1	399.3
35°	322.1	328.9	308.5	306.3	258.6
37.5°	201.1	231.4	204.2	217.8	166.4
40°	130.1	167.9	144.4	159.6	122.5
42.5°	106.6	129.3	118.7	126.3	108.9
45°	84.7	105.1	105.1	105.1	85.4
47.5°	46.9	70.3	90.0	71.8	49.9
50°	26.5	35.5	69.6	37.1	28.0
52.5°	18.1	20.4	47.6	21.2	18.9
55°	13.6	14.4	25.7	15.1	14.4
57.5°	10.6	11.3	13.6	11.3	10.6
60°	8.3	8.3	9.8	9.1	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	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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