

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P751488

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751488
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-EU4DR3055659040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5219.7 lumens
Efficiency: N/A
Efficacy: 71.7 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

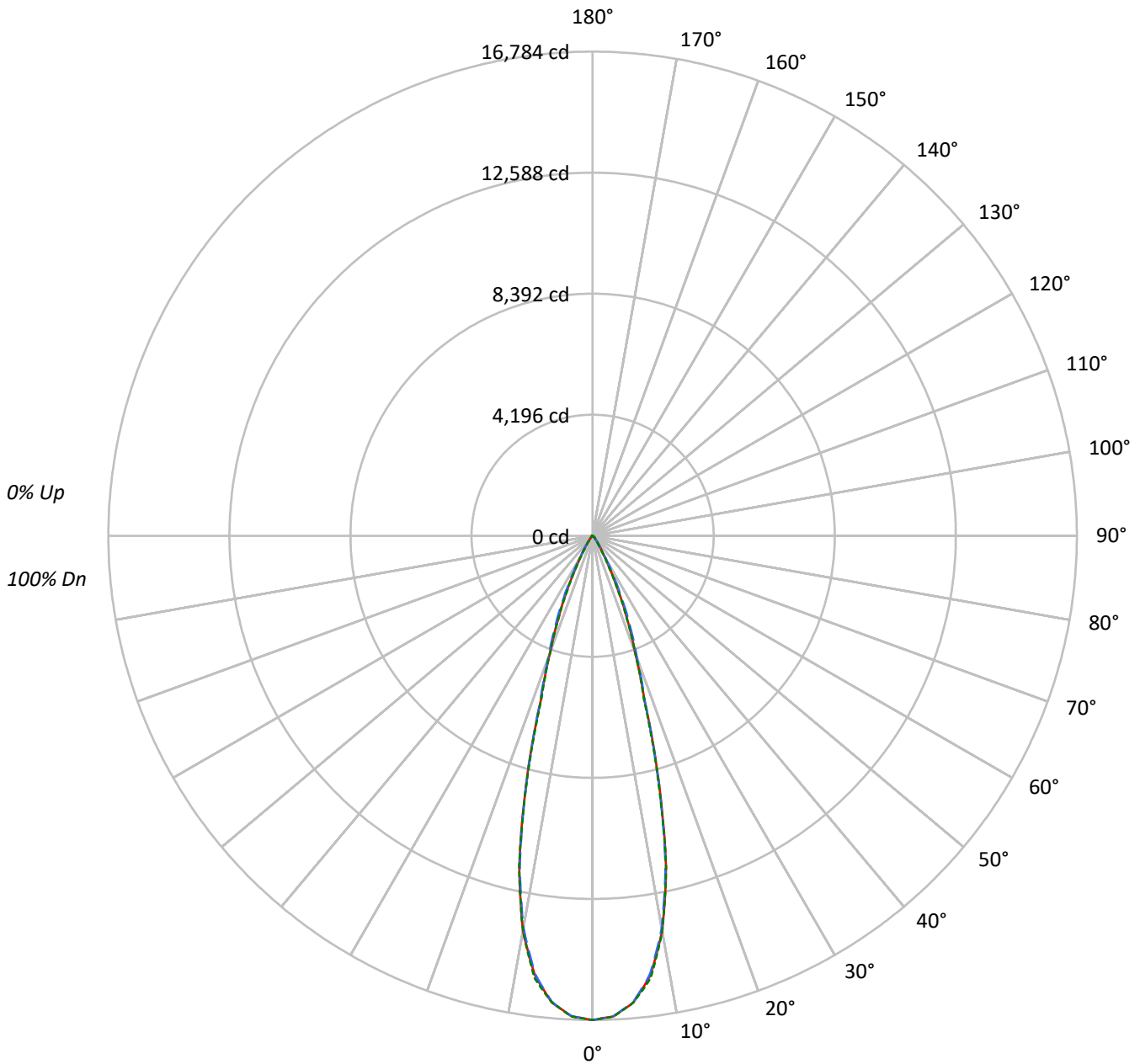
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1284704	1284704	1284704
5°	1247821	1246369	1247890
10°	1080802	1073185	1080545
15°	705173	701385	697858
20°	350651	363806	350178
25°	176632	199182	173017
30°	70717	77054	61613
35°	32798	31415	26332
40°	14159	15727	13339
45°	9991	12394	10078
50°	3430	9026	3632
55°	1975	3737	2095
60°	1393	1638	1393
65°	887	887	887
70°	559	358	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12394 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1475.9	28.3
10°-20°	2377.0	45.5
20°-30°	1027.1	19.7
30°-40°	234.1	4.5
40°-50°	80.4	1.5
50°-60°	19.6	0.4
60°-70°	5.1	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°	4880.0	93.5
0°-40°	5114.1	98.0
0°-60°	5214.1	99.9
0°-90°	5219.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5219.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16784	16784	16784	16784	16784	
5°	16240	16224	16221	16255	16241	1477
15°	8899	8792	8851	8822	8806	2383
25°	2091	2170	2358	2115	2049	1001
35°	351	358	336	334	282	238
45°	92	114	114	114	93	66
55°	15	16	28	16	16	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°	16784.0	16784.0	16784.0	16784.0	16784.0
2.5°	16672.7	16661.2	16667.8	16676.0	16679.3
5°	16240.1	16224.5	16221.2	16255.0	16241.0
7.5°	15367.5	15345.2	15311.4	15388.1	15459.8
10°	13905.6	13880.9	13807.6	13843.8	13902.3
12.5°	11747.5	11667.5	11665.9	11781.3	11765.6
15°	8898.8	8791.7	8851.0	8822.1	8806.5
17.5°	5984.2	5943.0	6022.1	5998.2	5895.2
20°	4304.8	4315.5	4466.3	4390.5	4299.0
22.5°	3141.2	3180.0	3358.8	3163.5	3091.8
25°	2091.4	2170.5	2358.4	2115.3	2048.6
27.5°	1286.3	1322.6	1512.9	1269.8	1233.6
30°	800.1	782.0	871.8	748.2	697.1
32.5°	524.9	501.8	530.7	476.3	435.1
35°	351.0	358.5	336.2	333.7	281.8
37.5°	219.2	252.2	222.5	237.3	181.3
40°	141.7	182.9	157.4	173.9	133.5
42.5°	116.2	140.9	129.4	137.6	118.7
45°	92.3	114.5	114.5	114.5	93.1
47.5°	51.1	76.6	98.1	78.3	54.4
50°	28.8	38.7	75.8	40.4	30.5
52.5°	19.8	22.2	51.9	23.1	20.6
55°	14.8	15.7	28.0	16.5	15.7
57.5°	11.5	12.4	14.8	12.4	11.5
60°	9.1	9.1	10.7	9.9	9.1
62.5°	6.6	6.6	7.4	6.6	6.6
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.6	1.6	1.6	2.5
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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