

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: P751454

Luminaire Tested: LD4D65D010-EU4DR3055659030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751454
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-EU4DR3055659030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5231.7 lumens
Efficiency: N/A
Efficacy: 71.9 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

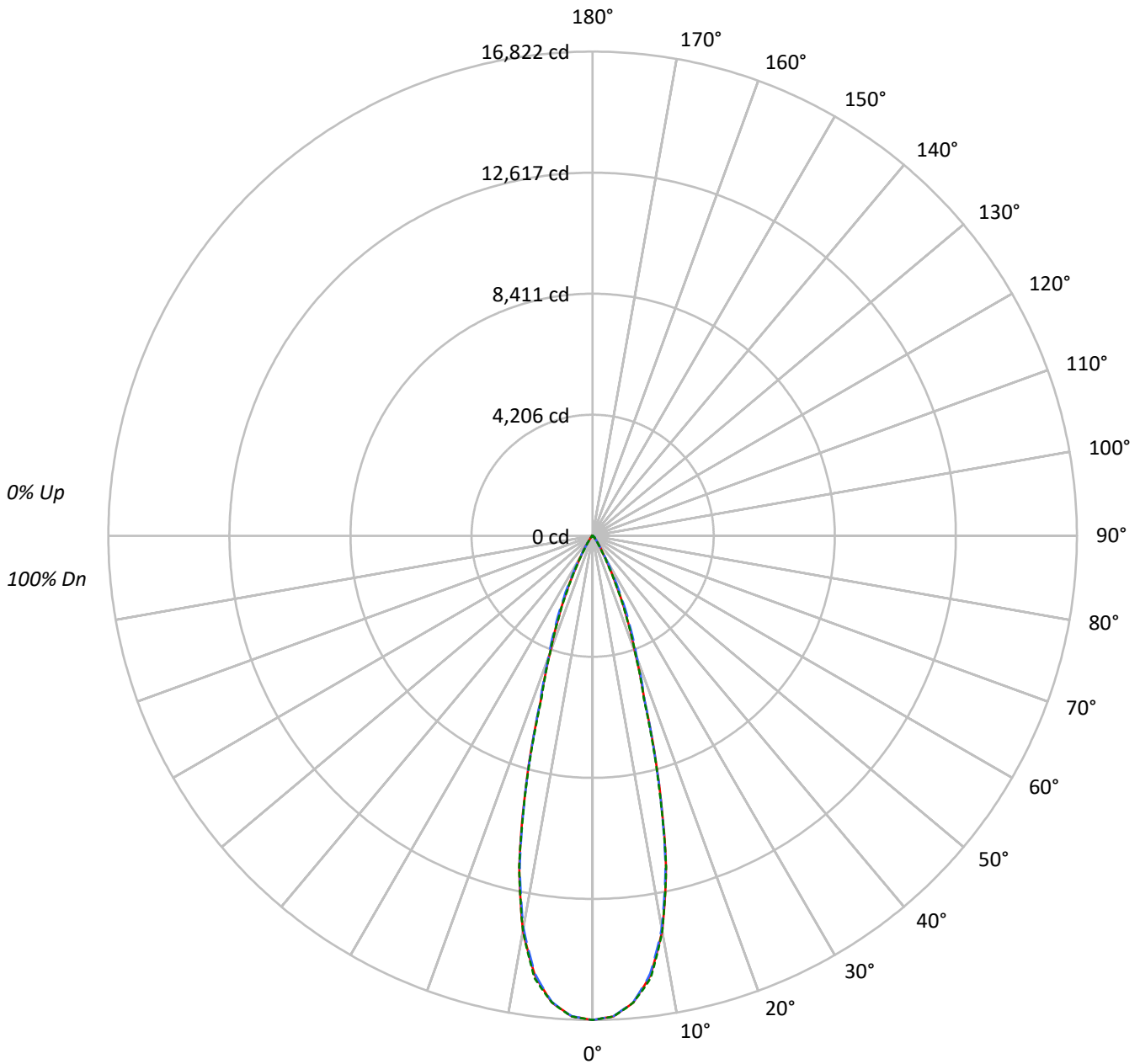
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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°	1287636	1287636	1287636
5°	1250671	1249211	1250733
10°	1083273	1075633	1083017
15°	706781	702985	699451
20°	351449	364637	350977
25°	177037	199638	173406
30°	70885	77231	61754
35°	32873	31490	26397
40°	14199	15767	13369
45°	10013	12427	10100
50°	3441	9050	3644
55°	1988	3750	2095
60°	1393	1638	1393
65°	906	906	906
70°	559	380	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: 12427 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1479.3	28.3
10°-20°	2382.4	45.5
20°-30°	1029.5	19.7
30°-40°	234.6	4.5
40°-50°	80.6	1.5
50°-60°	19.7	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°	4891.1	93.5
0°-40°	5125.8	98.0
0°-60°	5226.0	99.9
0°-90°	5231.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5231.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16822	16822	16822	16822	16822	
5°	16277	16262	16258	16292	16278	1480
15°	8919	8812	8871	8842	8827	2388
25°	2096	2176	2364	2120	2053	1003
35°	352	359	337	334	282	239
45°	92	115	115	115	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°	16822.3	16822.3	16822.3	16822.3	16822.3
2.5°	16710.8	16699.3	16705.9	16714.1	16717.4
5°	16277.2	16261.5	16258.2	16292.1	16278.0
7.5°	15402.6	15380.3	15346.4	15423.2	15495.1
10°	13937.4	13912.6	13839.1	13875.4	13934.1
12.5°	11774.3	11694.2	11692.5	11808.2	11792.5
15°	8919.1	8811.7	8871.2	8842.3	8826.6
17.5°	5997.8	5956.5	6035.8	6011.9	5908.6
20°	4314.6	4325.3	4476.5	4400.5	4308.8
22.5°	3148.4	3187.2	3366.4	3170.7	3098.8
25°	2096.2	2175.5	2363.8	2120.1	2053.2
27.5°	1289.3	1325.6	1516.4	1272.7	1236.4
30°	802.0	783.8	873.8	749.9	698.7
32.5°	526.1	503.0	531.9	477.4	436.1
35°	351.8	359.3	337.0	334.5	282.5
37.5°	219.7	252.7	223.0	237.9	181.7
40°	142.1	183.4	157.8	174.3	133.8
42.5°	116.5	141.2	129.7	137.9	118.9
45°	92.5	114.8	114.8	114.8	93.3
47.5°	51.2	76.8	98.3	78.5	54.5
50°	28.9	38.8	76.0	40.5	30.6
52.5°	19.8	22.3	52.0	23.1	20.6
55°	14.9	15.7	28.1	16.5	15.7
57.5°	11.6	12.4	14.9	12.4	11.6
60°	9.1	9.1	10.7	9.9	9.1
62.5°	6.6	6.6	7.4	6.6	6.6
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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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