

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: P751438

Luminaire Tested: LD4D65D010-EU4DR3055659027-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751438
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-EU4DR3055659027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

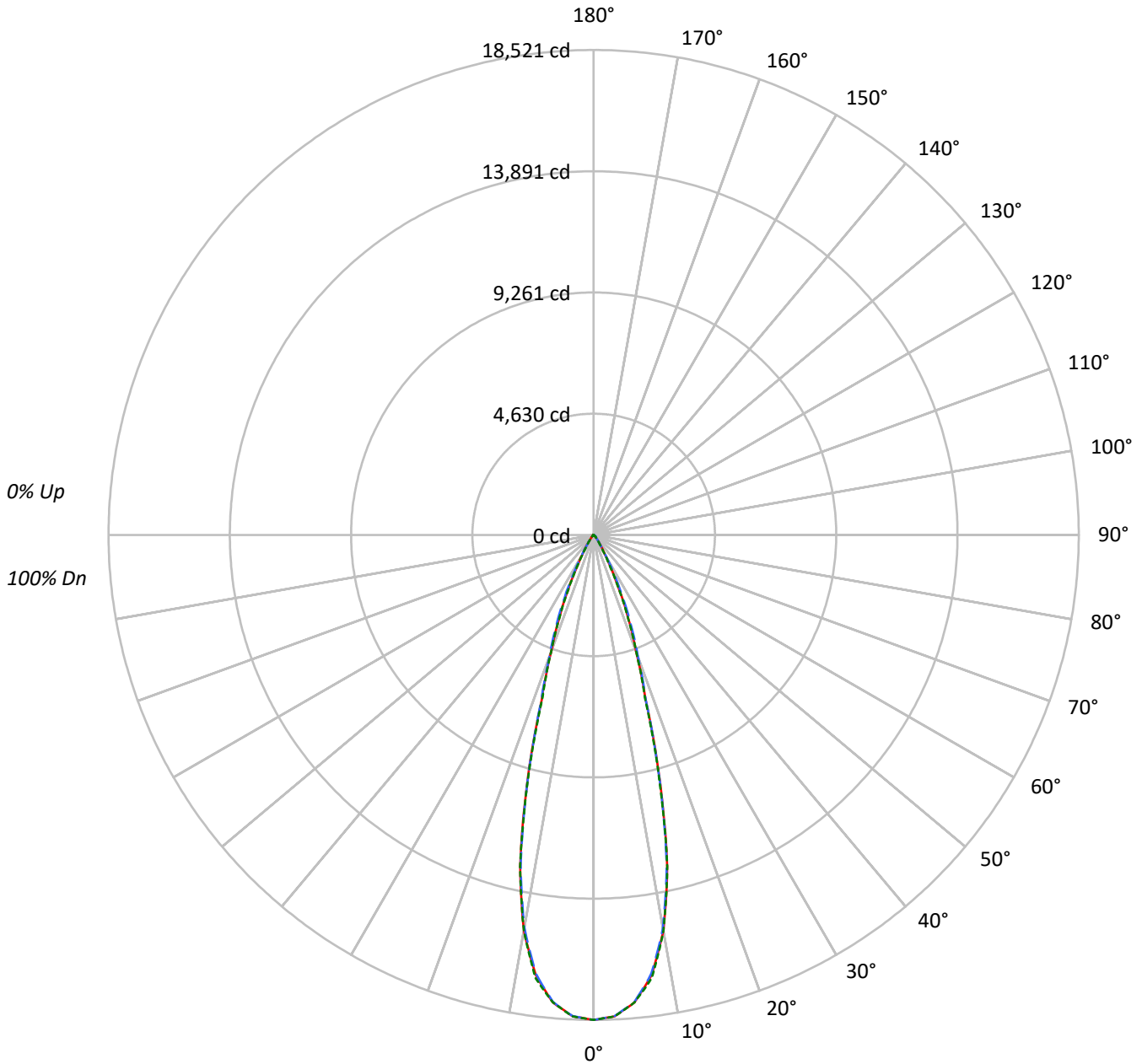
Lumens per Lamp: N/A
Luminaire Lumens: 5760.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	1417676	1417676	1417676
5°	1376974	1375368	1377051
10°	1192670	1184260	1192390
15°	778156	773980	770089
20°	386939	401463	386426
25°	194917	219798	190922
30°	78044	85035	67994
35°	36200	34667	29061
40°	15628	17356	14718
45°	11020	13683	11128
50°	3787	9967	4001
55°	2189	4124	2309
60°	1531	1806	1531
65°	996	996	996
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13683 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1628.7	28.3
10°-20°	2623.0	45.5
20°-30°	1133.5	19.7
30°-40°	258.3	4.5
40°-50°	88.7	1.5
50°-60°	21.7	0.4
60°-70°	5.6	0.1
70°-80°	0.6	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°	5385.1	93.5
0°-40°	5643.4	98.0
0°-60°	5753.8	99.9
0°-90°	5760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18521	18521	18521	18521	18521	
5°	17921	17904	17900	17937	17922	1630
15°	9820	9702	9767	9735	9718	2629
25°	2308	2395	2602	2334	2261	1105
35°	387	396	371	368	311	263
45°	102	126	126	126	103	72
55°	16	17	31	18	17	16
65°	6	6	6	6	6	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°	18521.2	18521.2	18521.2	18521.2	18521.2
2.5°	18398.4	18385.7	18393.0	18402.1	18405.7
5°	17921.0	17903.8	17900.1	17937.4	17922.0
7.5°	16958.1	16933.5	16896.2	16980.8	17059.9
10°	15344.9	15317.6	15236.7	15276.7	15341.3
12.5°	12963.4	12875.2	12873.4	13000.7	12983.4
15°	9819.8	9701.6	9767.1	9735.3	9718.0
17.5°	6603.5	6558.1	6645.4	6619.0	6505.3
20°	4750.3	4762.2	4928.6	4844.9	4744.0
22.5°	3466.4	3509.1	3706.4	3490.9	3411.8
25°	2307.9	2395.2	2602.5	2334.2	2260.6
27.5°	1419.5	1459.5	1669.5	1401.3	1361.3
30°	883.0	863.0	962.1	825.7	769.3
32.5°	579.2	553.8	585.6	525.6	480.1
35°	387.4	395.6	371.0	368.3	311.0
37.5°	241.9	278.3	245.5	261.9	200.1
40°	156.4	201.9	173.7	191.9	147.3
42.5°	128.2	155.5	142.8	151.9	130.9
45°	101.8	126.4	126.4	126.4	102.8
47.5°	56.4	84.6	108.2	86.4	60.0
50°	31.8	42.7	83.7	44.6	33.6
52.5°	21.8	24.6	57.3	25.5	22.7
55°	16.4	17.3	30.9	18.2	17.3
57.5°	12.7	13.6	16.4	13.6	12.7
60°	10.0	10.0	11.8	10.9	10.0
62.5°	7.3	7.3	8.2	7.3	7.3
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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