

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: P744117

Luminaire Tested: LD4D20D010-EU4DR3020359027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744117
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: LD4D20D010-EU4DR3020359027-4LBSQW1B
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: 1324.3 lumens
Efficiency: N/A
Efficacy: 57.3 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): 23.1
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



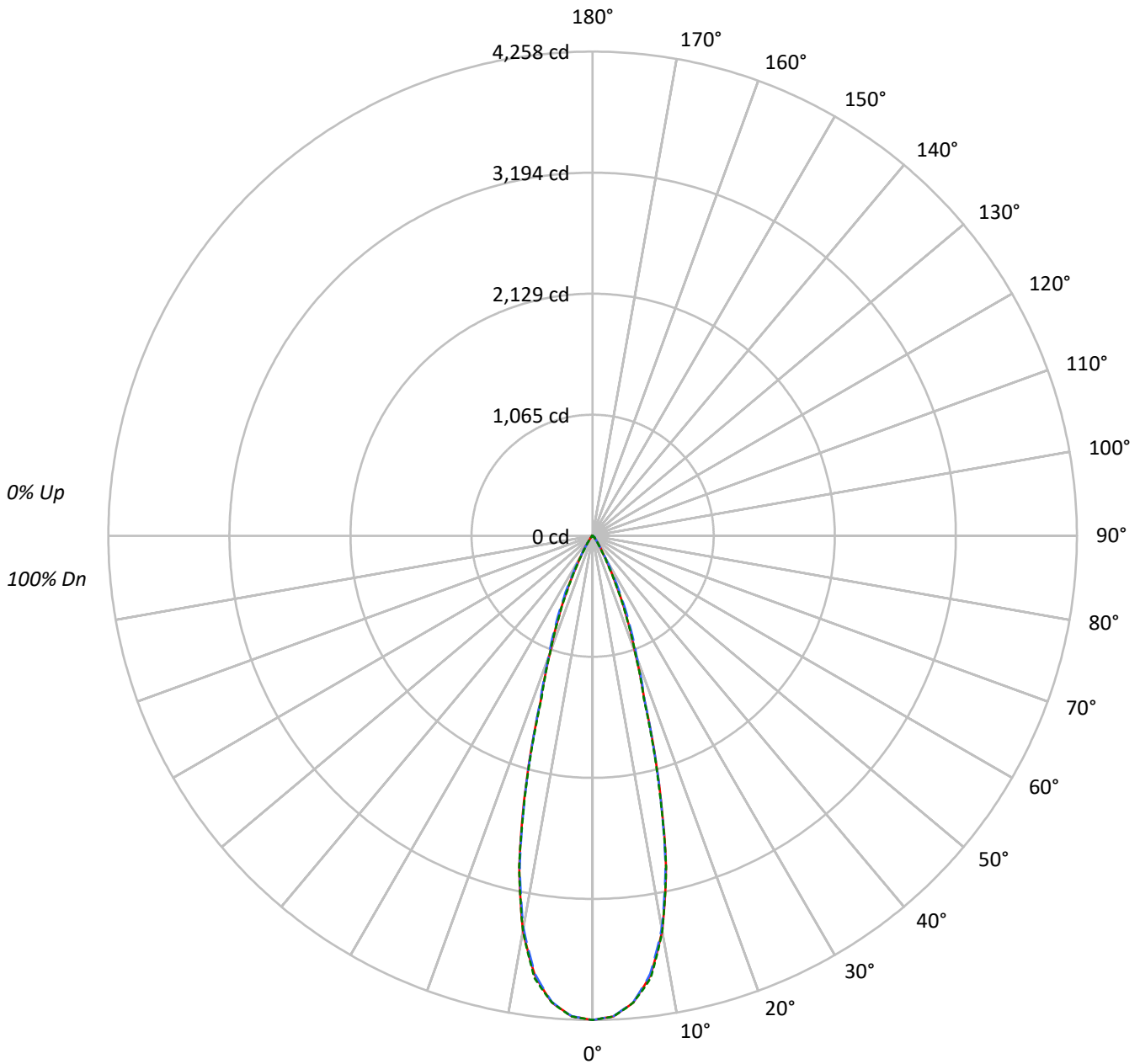
Downlight



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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	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°	325937	325937	325937
5°	316586	316210	316602
10°	274211	272276	274141
15°	178908	177949	177054
20°	88966	92298	88844
25°	44813	50530	43892
30°	17942	19551	15635
35°	8316	7971	6681
40°	3597	3987	3387
45°	2533	3139	2555
50°	869	2298	917
55°	507	947	534
60°	352	413	352
65°	235	235	235
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3139 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.4	28.3
10°-20°	603.0	45.5
20°-30°	260.6	19.7
30°-40°	59.4	4.5
40°-50°	20.4	1.5
50°-60°	5.0	0.4
60°-70°	1.3	0.1
70°-80°	0.1	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°	1238.1	93.5
0°-40°	1297.5	98.0
0°-60°	1322.9	99.9
0°-90°	1324.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1324.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4258	4258	4258	4258	4258	
5°	4120	4116	4115	4124	4120	375
15°	2258	2230	2246	2238	2234	605
25°	531	551	598	537	520	254
35°	89	91	85	85	72	60
45°	23	29	29	29	24	17
55°	4	4	7	4	4	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	4258.2	4258.2	4258.2	4258.2	4258.2
2.5°	4230.0	4227.1	4228.8	4230.8	4231.7
5°	4120.3	4116.3	4115.4	4124.0	4120.5
7.5°	3898.9	3893.2	3884.7	3904.1	3922.2
10°	3528.0	3521.7	3503.1	3512.3	3527.1
12.5°	2980.4	2960.2	2959.7	2989.0	2985.0
15°	2257.7	2230.5	2245.6	2238.2	2234.3
17.5°	1518.2	1507.8	1527.8	1521.8	1495.6
20°	1092.2	1094.9	1133.1	1113.9	1090.7
22.5°	797.0	806.8	852.1	802.6	784.4
25°	530.6	550.7	598.3	536.7	519.7
27.5°	326.4	335.6	383.8	322.2	312.9
30°	203.0	198.4	221.2	189.8	176.9
32.5°	133.2	127.3	134.6	120.8	110.4
35°	89.0	90.9	85.3	84.7	71.5
37.5°	55.6	64.0	56.4	60.2	46.0
40°	36.0	46.4	39.9	44.1	33.9
42.5°	29.4	35.8	32.8	34.9	30.1
45°	23.4	29.0	29.0	29.0	23.6
47.5°	12.9	19.4	24.9	19.9	13.8
50°	7.3	9.8	19.3	10.3	7.7
52.5°	5.0	5.7	13.2	5.8	5.2
55°	3.8	4.0	7.1	4.2	4.0
57.5°	2.9	3.2	3.8	3.2	2.9
60°	2.3	2.3	2.7	2.5	2.3
62.5°	1.7	1.7	1.9	1.7	1.7
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.6	0.9	0.9	0.9	0.9
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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