

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: P744156

Luminaire Tested: LD4D20D010-EU4DR3020359040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744156
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-EU4DR3020359040-4LBSQW1B
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: 1483.4 lumens
Efficiency: N/A
Efficacy: 64.2 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 (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



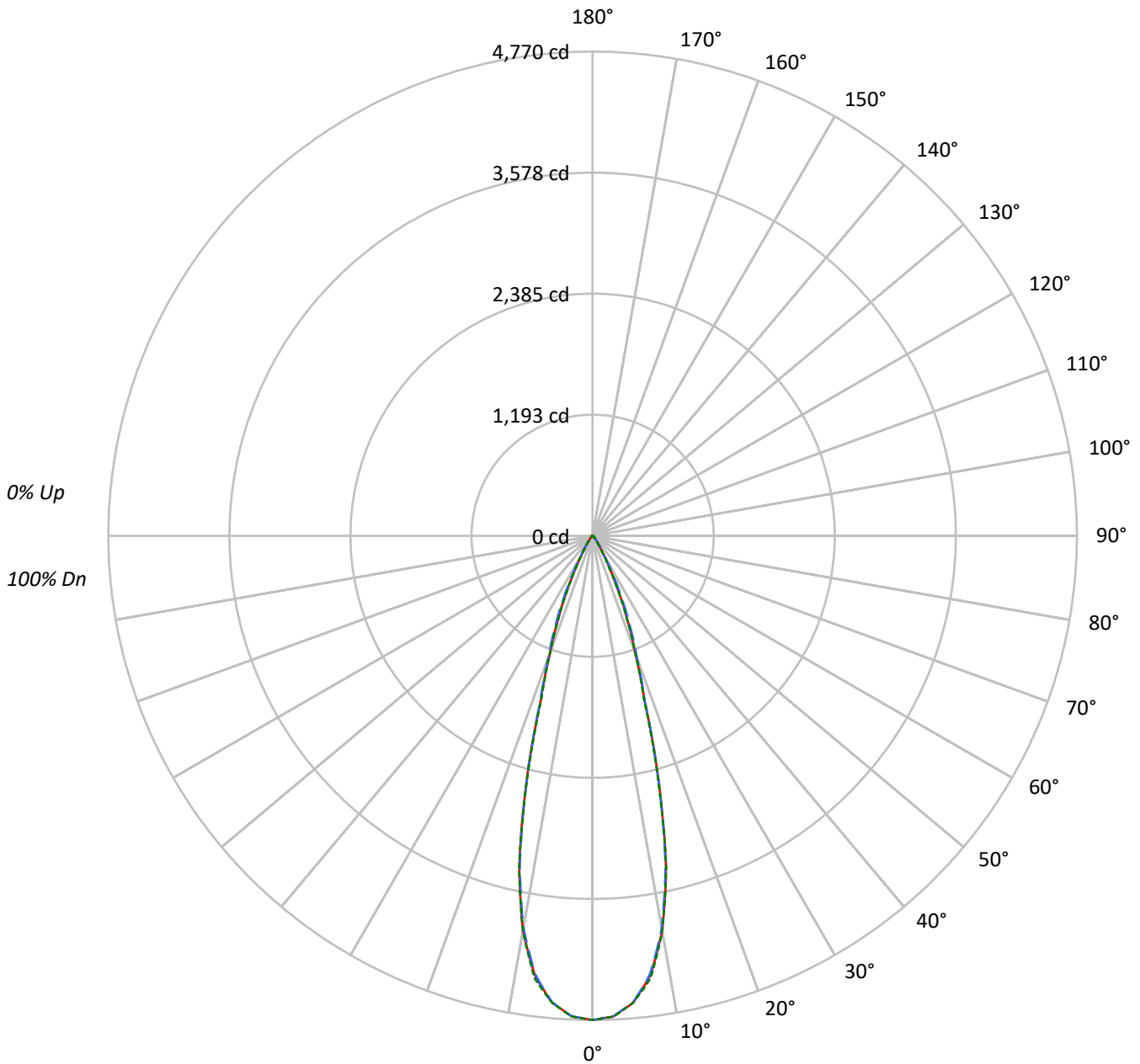
Downlight



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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°	365112	365112	365112
5°	354636	354221	354651
10°	307166	304998	307096
15°	200415	199337	198331
20°	99653	103392	99523
25°	50201	56603	49170
30°	20099	21902	17509
35°	9326	8933	7485
40°	4027	4466	3787
45°	2836	3518	2869
50°	976	2560	1036
55°	560	1068	601
60°	398	459	398
65°	254	254	254
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3518 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.5	28.3
10°-20°	675.5	45.5
20°-30°	291.9	19.7
30°-40°	66.5	4.5
40°-50°	22.8	1.5
50°-60°	5.6	0.4
60°-70°	1.4	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°	1386.9	93.5
0°-40°	1453.4	98.0
0°-60°	1481.8	99.9
0°-90°	1483.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1483.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4770	4770	4770	4770	4770	
5°	4616	4611	4610	4620	4616	420
15°	2529	2499	2516	2507	2503	677
25°	594	617	670	601	582	285
35°	100	102	96	95	80	68
45°	26	32	32	32	26	19
55°	4	4	8	5	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4770.0	4770.0	4770.0	4770.0	4770.0
2.5°	4738.4	4735.2	4737.0	4739.3	4740.3
5°	4615.5	4611.0	4610.1	4619.6	4615.7
7.5°	4367.4	4361.1	4351.5	4373.3	4393.7
10°	3952.0	3944.9	3924.1	3934.5	3951.1
12.5°	3338.6	3316.0	3315.4	3348.3	3343.8
15°	2529.1	2498.6	2515.5	2507.2	2502.8
17.5°	1700.7	1689.0	1711.5	1704.7	1675.4
20°	1223.4	1226.5	1269.3	1247.8	1221.8
22.5°	892.7	903.8	954.6	899.1	878.7
25°	594.4	616.8	670.2	601.2	582.2
27.5°	365.6	375.9	430.0	360.9	350.6
30°	227.4	222.2	247.8	212.6	198.1
32.5°	149.2	142.6	150.8	135.4	123.6
35°	99.8	101.9	95.6	94.8	80.1
37.5°	62.3	71.7	63.3	67.4	51.5
40°	40.3	52.0	44.7	49.4	37.9
42.5°	33.0	40.0	36.8	39.1	33.7
45°	26.2	32.5	32.5	32.5	26.5
47.5°	14.5	21.8	27.8	22.2	15.5
50°	8.2	11.0	21.5	11.5	8.7
52.5°	5.6	6.3	14.8	6.5	5.8
55°	4.2	4.5	8.0	4.7	4.5
57.5°	3.3	3.5	4.2	3.5	3.3
60°	2.6	2.6	3.0	2.8	2.6
62.5°	1.9	1.9	2.1	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	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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