

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: P743910

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1515309035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1785.8 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
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



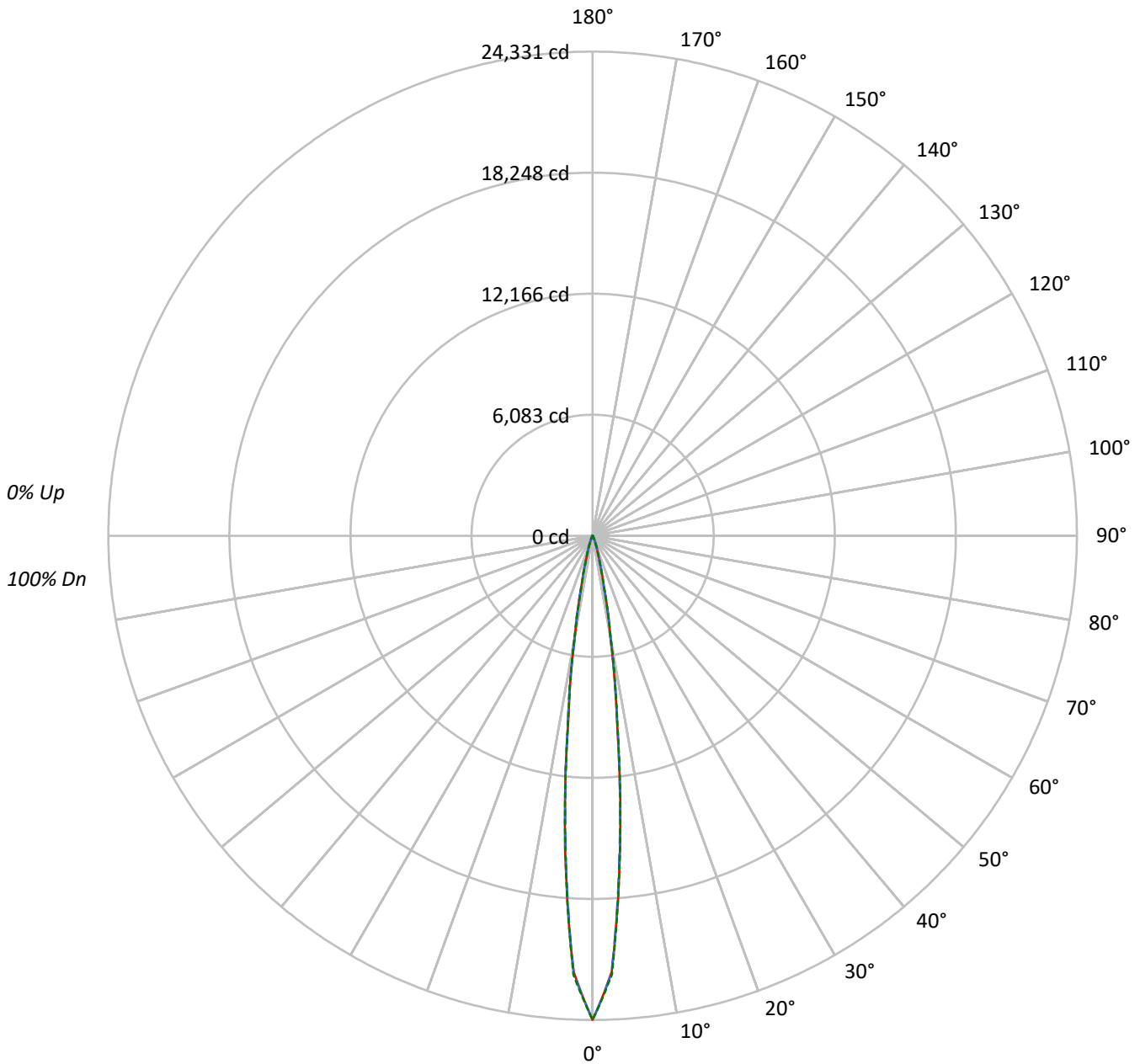
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2737678	2737678	2737678
5°	1608786	1587962	1600523
10°	480152	483511	490910
15°	119428	121756	118004
20°	35732	41378	36493
25°	12597	16048	12760
30°	4628	6095	4703
35°	2317	2614	2244
40°	1463	1612	1463
45°	1078	1155	1078
50°	862	862	862
55°	717	717	717
60°	576	576	576
65°	442	442	442
70°	373	373	373
75°	234	234	310
80°	166	166	166
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1155 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1158.2	64.9
10°-20°	476.4	26.7
20°-30°	94.6	5.3
30°-40°	23.6	1.3
40°-50°	12.4	0.7
50°-60°	9.2	0.5
60°-70°	6.5	0.4
70°-80°	3.7	0.2
80°-90°	1.1	0.1
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°	1729.2	96.8
0°-40°	1752.8	98.2
0°-60°	1774.4	99.4
0°-90°	1785.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24331	24331	24331	24331	24331	
5°	15830	15667	15625	15733	15749	1156
15°	1375	1401	1402	1377	1359	471
25°	162	183	206	182	164	85
35°	32	34	36	34	31	22
45°	15	15	16	15	15	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24330.6	24330.6	24330.6	24330.6	24330.6
2.5°	21947.2	21965.7	21972.9	21994.6	22074.9
5°	15830.0	15667.3	15625.1	15733.2	15748.7
7.5°	9377.1	9410.1	9530.6	9557.3	9460.5
10°	5145.9	5188.1	5181.9	5219.0	5261.2
12.5°	2631.6	2598.7	2588.4	2630.6	2571.9
15°	1375.0	1400.8	1401.8	1377.1	1358.6
17.5°	739.5	769.4	818.8	778.7	716.9
20°	436.7	463.5	505.7	472.8	446.0
22.5°	269.9	291.5	321.4	295.6	274.0
25°	161.7	183.3	206.0	182.3	163.8
27.5°	95.8	114.3	128.7	113.3	94.8
30°	61.8	72.1	81.4	71.1	62.8
32.5°	43.3	47.4	51.5	47.4	43.3
35°	31.9	34.0	36.0	34.0	30.9
37.5°	24.7	26.8	27.8	25.7	23.7
40°	20.6	21.6	22.7	21.6	20.6
42.5°	17.5	18.5	18.5	18.5	17.5
45°	15.4	15.4	16.5	15.4	15.4
47.5°	13.4	13.4	14.4	13.4	13.4
50°	12.4	12.4	12.4	12.4	12.4
52.5°	11.3	11.3	11.3	11.3	11.3
55°	10.3	10.3	10.3	10.3	10.3
57.5°	9.3	9.3	9.3	9.3	9.3
60°	8.2	8.2	8.2	8.2	8.2
62.5°	7.2	7.2	7.2	7.2	7.2
65°	6.2	6.2	6.2	6.2	6.2
67.5°	6.2	6.2	6.2	6.2	6.2
70°	5.1	5.1	5.1	5.1	5.1
72.5°	4.1	4.1	4.1	4.1	4.1
75°	3.1	3.1	3.1	3.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0
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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