

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: P739859

Luminaire Tested: LD4D05D010-EU4DR150210IC9027-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739859
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: LD4D05D010-EU4DR150210IC9027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 537.1 lumens
Efficiency: N/A
Efficacy: 71.6 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): 7.5
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

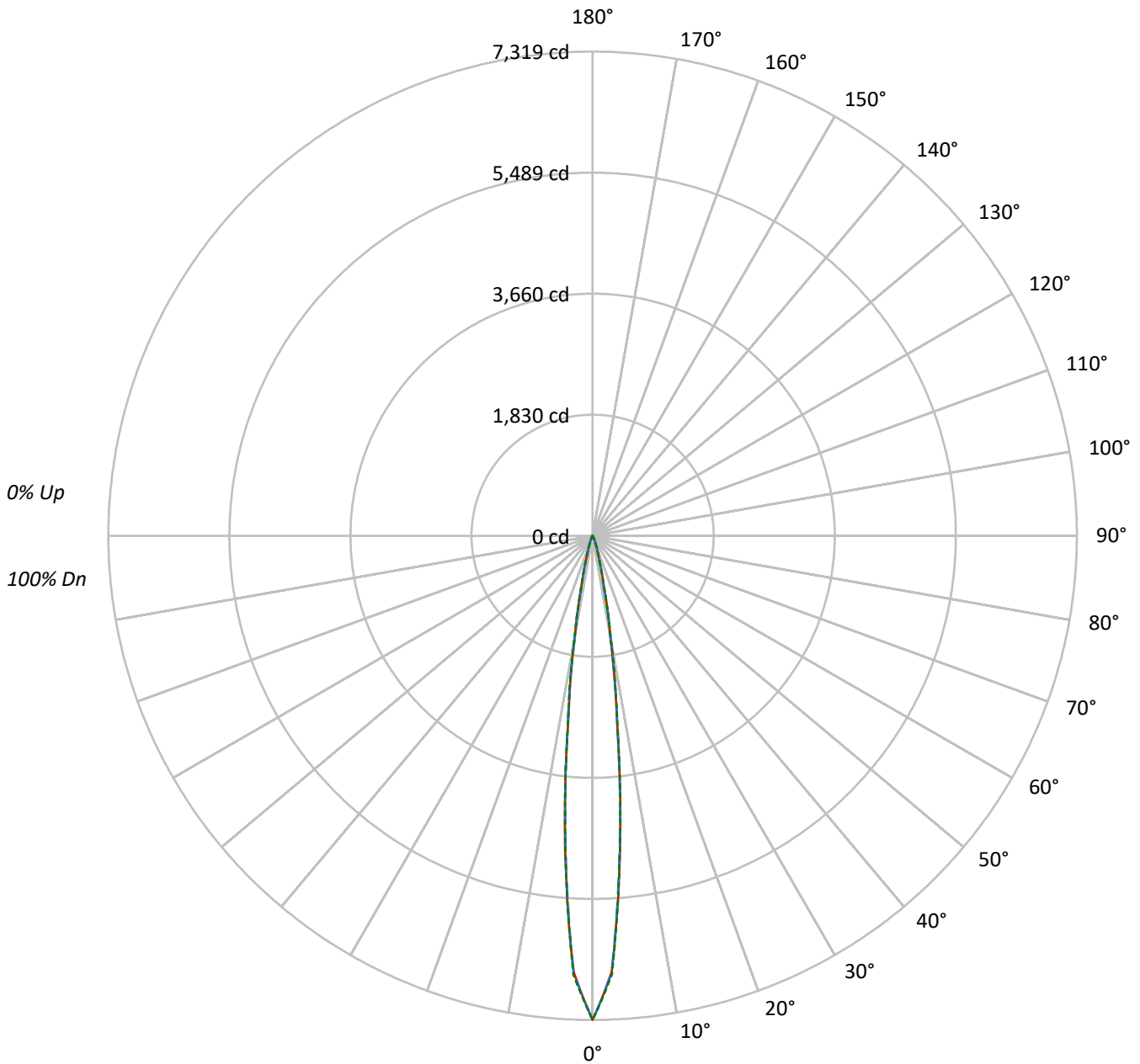


Downlight



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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	99	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	99	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°	823511	823511	823511
5°	483937	477666	481447
10°	144431	145448	147669
15°	35924	36628	35498
20°	10752	12445	10981
25°	3786	4830	3841
30°	1393	1835	1415
35°	697	784	675
40°	440	483	440
45°	322	350	322
50°	257	257	257
55°	216	216	216
60°	176	176	176
65°	136	136	136
70°	110	110	110
75°	68	68	91
80°	47	47	47
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 350 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	64.9
10°-20°	143.3	26.7
20°-30°	28.5	5.3
30°-40°	7.1	1.3
40°-50°	3.7	0.7
50°-60°	2.8	0.5
60°-70°	2.0	0.4
70°-80°	1.1	0.2
80°-90°	0.3	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°	520.2	96.8
0°-40°	527.3	98.2
0°-60°	533.8	99.4
0°-90°	537.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7319	7319	7319	7319	7319	
5°	4762	4713	4700	4733	4737	348
15°	414	421	422	414	409	142
25°	49	55	62	55	49	26
35°	10	10	11	10	9	7
45°	5	5	5	5	5	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	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°	7318.8	7318.8	7318.8	7318.8	7318.8
2.5°	6601.9	6607.4	6609.6	6616.1	6640.3
5°	4761.8	4712.8	4700.1	4732.7	4737.3
7.5°	2820.7	2830.6	2866.9	2874.9	2845.8
10°	1547.9	1560.6	1558.8	1569.9	1582.6
12.5°	791.6	781.7	778.6	791.3	773.6
15°	413.6	421.4	421.7	414.2	408.7
17.5°	222.5	231.4	246.3	234.2	215.6
20°	131.4	139.4	152.1	142.2	134.2
22.5°	81.2	87.7	96.7	88.9	82.4
25°	48.6	55.1	62.0	54.8	49.3
27.5°	28.8	34.4	38.7	34.1	28.5
30°	18.6	21.7	24.5	21.4	18.9
32.5°	13.0	14.3	15.5	14.3	13.0
35°	9.6	10.2	10.8	10.2	9.3
37.5°	7.4	8.1	8.4	7.7	7.1
40°	6.2	6.5	6.8	6.5	6.2
42.5°	5.3	5.6	5.6	5.6	5.3
45°	4.6	4.6	5.0	4.6	4.6
47.5°	4.0	4.0	4.3	4.0	4.0
50°	3.7	3.7	3.7	3.7	3.7
52.5°	3.4	3.4	3.4	3.4	3.4
55°	3.1	3.1	3.1	3.1	3.1
57.5°	2.8	2.8	2.8	2.8	2.8
60°	2.5	2.5	2.5	2.5	2.5
62.5°	2.2	2.2	2.2	2.2	2.2
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.2	1.2	1.2	1.2	1.2
75°	0.9	0.9	0.9	0.9	1.2
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.3	0.3	0.3
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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