

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: P738832

Luminaire Tested: LD4D02D010-EU4DR150210IC9024-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738832
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: LD4D02D010-EU4DR150210IC9024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 265.4 lumens
Efficiency: N/A
Efficacy: 52.0 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): 5.1
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

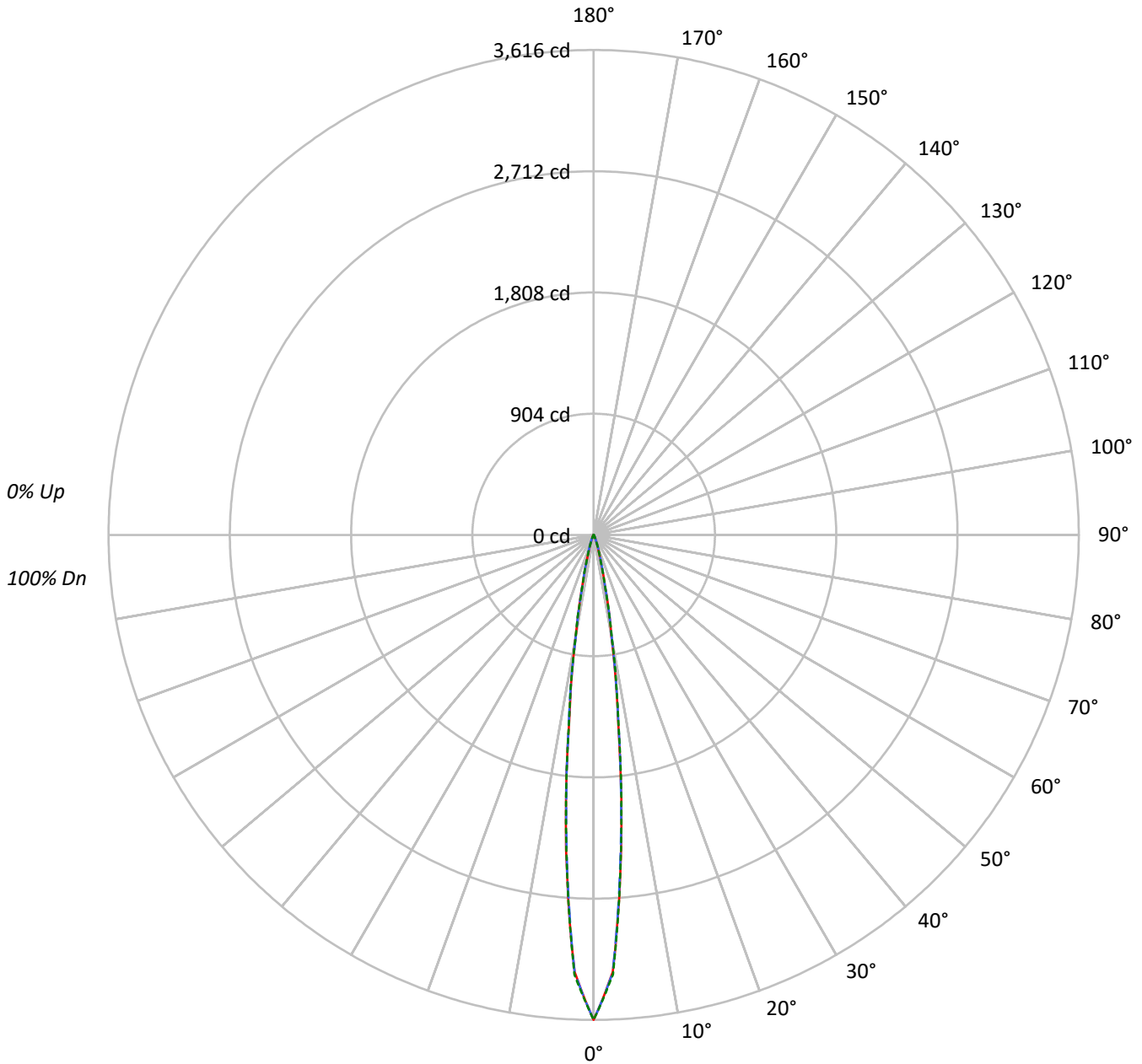


Downlight



TEST NUMBER: P738832
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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						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	93	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	406895	406895	406895
5°	239112	236013	237883
10°	71362	71866	72967
15°	17754	18101	17536
20°	5310	6153	5425
25°	1870	2384	1893
30°	689	906	696
35°	341	392	334
40°	220	241	220
45°	161	168	161
50°	125	125	125
55°	104	104	104
60°	84	84	84
65°	64	64	64
70°	59	59	59
75°	38	38	45
80°	24	24	24
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 168 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	64.9
10°-20°	70.8	26.7
20°-30°	14.1	5.3
30°-40°	3.5	1.3
40°-50°	1.8	0.7
50°-60°	1.4	0.5
60°-70°	1.0	0.4
70°-80°	0.6	0.2
80°-90°	0.2	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°	257.0	96.8
0°-40°	260.5	98.1
0°-60°	263.7	99.4
0°-90°	265.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	265.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3616	3616	3616	3616	3616	
5°	2353	2329	2322	2338	2341	172
15°	204	208	208	205	202	70
25°	24	27	31	27	24	13
35°	5	5	5	5	5	3
45°	2	2	2	2	2	2
55°	2	2	2	2	2	1
65°	1	1	1	1	1	1
75°	0	0	0	0	1	1
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°	3616.2	3616.2	3616.2	3616.2	3616.2
2.5°	3262.0	3264.7	3265.8	3269.0	3281.0
5°	2352.8	2328.6	2322.3	2338.4	2340.7
7.5°	1393.7	1398.6	1416.5	1420.5	1406.1
10°	764.8	771.1	770.2	775.7	782.0
12.5°	391.1	386.2	384.7	391.0	382.3
15°	204.4	208.2	208.4	204.7	201.9
17.5°	109.9	114.4	121.7	115.7	106.5
20°	64.9	68.9	75.2	70.3	66.3
22.5°	40.1	43.3	47.8	43.9	40.7
25°	24.0	27.2	30.6	27.1	24.3
27.5°	14.2	17.0	19.1	16.8	14.1
30°	9.2	10.7	12.1	10.6	9.3
32.5°	6.4	7.0	7.7	7.0	6.4
35°	4.7	5.1	5.4	5.1	4.6
37.5°	3.7	4.0	4.1	3.8	3.5
40°	3.1	3.2	3.4	3.2	3.1
42.5°	2.6	2.8	2.8	2.8	2.6
45°	2.3	2.3	2.4	2.3	2.3
47.5°	2.0	2.0	2.1	2.0	2.0
50°	1.8	1.8	1.8	1.8	1.8
52.5°	1.7	1.7	1.7	1.7	1.7
55°	1.5	1.5	1.5	1.5	1.5
57.5°	1.4	1.4	1.4	1.4	1.4
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.1	1.1	1.1	1.1	1.1
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.5	0.5	0.5	0.5	0.6
77.5°	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.2	0.2	0.2	0.2	0.2
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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