

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: P740904

Luminaire Tested: LD4D08D010-EU4DR150210IC9040-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740904
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: LD4D08D010-EU4DR150210IC9040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 765.4 lumens
Efficiency: N/A
Efficacy: 86.0 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): 8.9
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

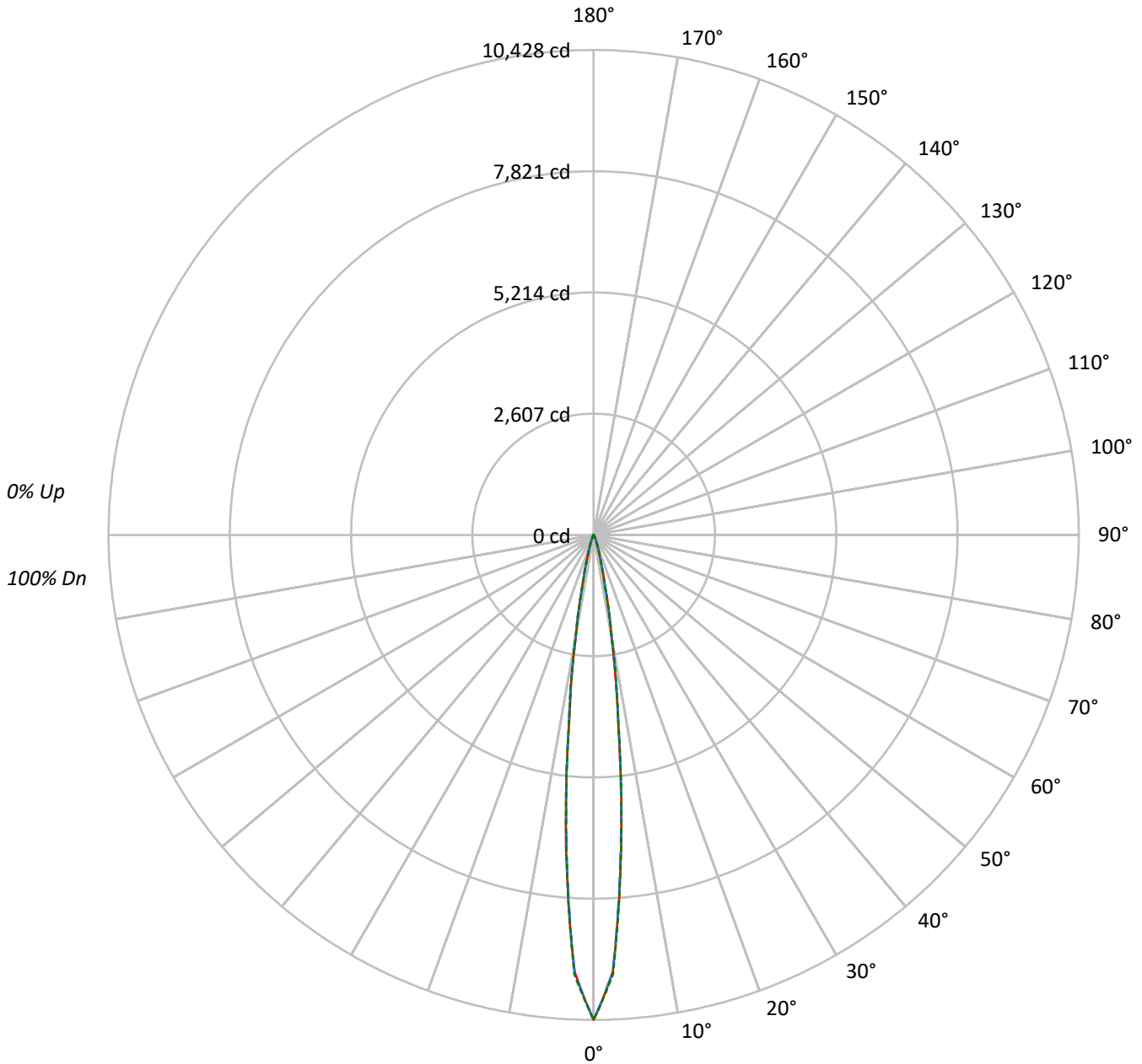


Downlight



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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	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°	1173414	1173414	1173414
5°	689552	680629	686015
10°	205799	207245	210418
15°	51193	52184	50577
20°	15317	17739	15645
25°	5399	6879	5469
30°	1984	2613	2014
35°	995	1126	959
40°	625	689	625
45°	462	497	462
50°	369	369	369
55°	306	306	306
60°	246	246	246
65°	186	186	186
70°	161	161	161
75°	98	98	136
80°	71	71	71
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 497 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.4	64.9
10°-20°	204.2	26.7
20°-30°	40.6	5.3
30°-40°	10.1	1.3
40°-50°	5.3	0.7
50°-60°	4.0	0.5
60°-70°	2.8	0.4
70°-80°	1.6	0.2
80°-90°	0.5	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°	741.2	96.8
0°-40°	751.3	98.2
0°-60°	760.6	99.4
0°-90°	765.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	765.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10428	10428	10428	10428	10428	
5°	6785	6715	6697	6744	6750	495
15°	589	600	601	590	582	202
25°	69	79	88	78	70	36
35°	14	15	16	15	13	9
45°	7	7	7	7	7	5
55°	4	4	4	4	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
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°	10428.5	10428.5	10428.5	10428.5	10428.5
2.5°	9406.9	9414.9	9418.0	9427.3	9461.7
5°	6785.0	6715.3	6697.2	6743.5	6750.2
7.5°	4019.2	4033.3	4085.0	4096.4	4054.9
10°	2205.6	2223.7	2221.1	2237.0	2255.1
12.5°	1128.0	1113.8	1109.4	1127.5	1102.4
15°	589.4	600.4	600.8	590.3	582.3
17.5°	317.0	329.8	351.0	333.8	307.3
20°	187.2	198.7	216.8	202.6	191.2
22.5°	115.7	124.9	137.7	126.7	117.4
25°	69.3	78.6	88.3	78.1	70.2
27.5°	41.1	49.0	55.2	48.6	40.6
30°	26.5	30.9	34.9	30.5	26.9
32.5°	18.5	20.3	22.1	20.3	18.5
35°	13.7	14.6	15.5	14.6	13.2
37.5°	10.6	11.5	11.9	11.0	10.2
40°	8.8	9.3	9.7	9.3	8.8
42.5°	7.5	7.9	7.9	7.9	7.5
45°	6.6	6.6	7.1	6.6	6.6
47.5°	5.7	5.7	6.2	5.7	5.7
50°	5.3	5.3	5.3	5.3	5.3
52.5°	4.9	4.9	4.9	4.9	4.9
55°	4.4	4.4	4.4	4.4	4.4
57.5°	4.0	4.0	4.0	4.0	4.0
60°	3.5	3.5	3.5	3.5	3.5
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.6	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.3	1.3	1.3	1.3	1.8
77.5°	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4
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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