

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: P739894

Luminaire Tested: LD4D05D010-EU4DR150210IC9040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739894
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-EU4DR150210IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW 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: 687.9 lumens
Efficiency: N/A
Efficacy: 91.7 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

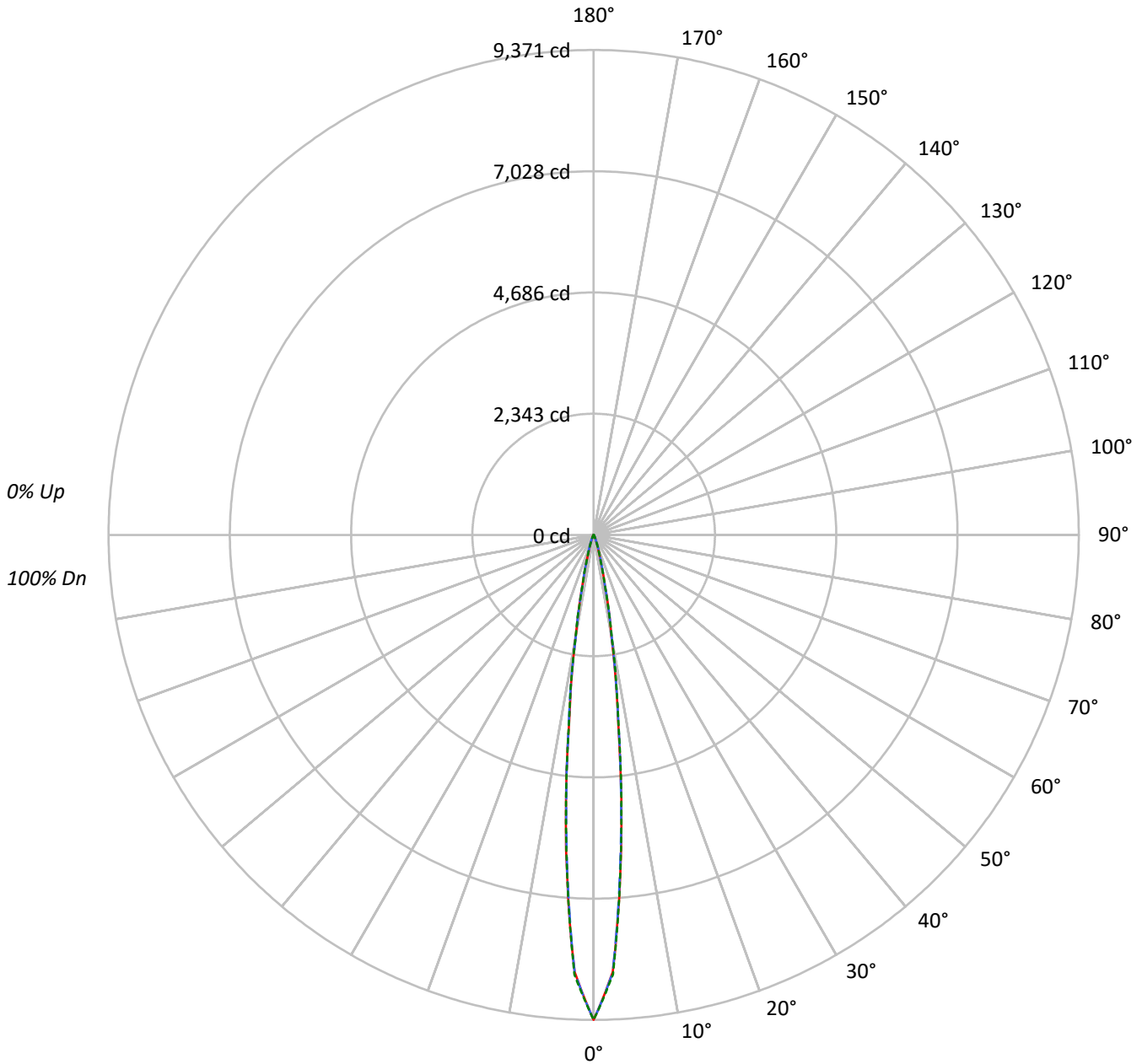


Downlight



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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	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	93	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	87	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°	1054436	1054436	1054436
5°	619631	611613	616450
10°	184936	186223	189079
15°	45999	46894	45452
20°	13763	15939	14057
25°	4853	6178	4916
30°	1782	2344	1812
35°	893	1009	864
40°	561	618	561
45°	420	441	420
50°	334	334	334
55°	278	278	278
60°	225	225	225
65°	171	171	171
70°	146	146	146
75°	91	91	121
80°	63	63	63
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 441 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.1	64.9
10°-20°	183.5	26.7
20°-30°	36.4	5.3
30°-40°	9.1	1.3
40°-50°	4.8	0.7
50°-60°	3.6	0.5
60°-70°	2.5	0.4
70°-80°	1.4	0.2
80°-90°	0.4	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°	666.0	96.8
0°-40°	675.1	98.1
0°-60°	683.5	99.4
0°-90°	687.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9371	9371	9371	9371	9371	
5°	6097	6034	6018	6060	6066	445
15°	530	540	540	530	523	182
25°	62	71	79	70	63	33
35°	12	13	14	13	12	8
45°	6	6	6	6	6	5
55°	4	4	4	4	4	4
65°	2	2	2	2	2	3
75°	1	1	1	1	2	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°	9371.1	9371.1	9371.1	9371.1	9371.1
2.5°	8453.1	8460.2	8463.0	8471.3	8502.3
5°	6097.0	6034.3	6018.1	6059.7	6065.7
7.5°	3611.6	3624.3	3670.7	3681.1	3643.8
10°	1982.0	1998.2	1995.8	2010.1	2026.4
12.5°	1013.6	1000.9	996.9	1013.2	990.6
15°	529.6	539.5	539.9	530.4	523.3
17.5°	284.8	296.3	315.4	299.9	276.1
20°	168.2	178.5	194.8	182.1	171.8
22.5°	103.9	112.3	123.8	113.9	105.5
25°	62.3	70.6	79.3	70.2	63.1
27.5°	36.9	44.0	49.6	43.6	36.5
30°	23.8	27.8	31.3	27.4	24.2
32.5°	16.7	18.2	19.8	18.2	16.7
35°	12.3	13.1	13.9	13.1	11.9
37.5°	9.5	10.3	10.7	9.9	9.1
40°	7.9	8.3	8.7	8.3	7.9
42.5°	6.7	7.1	7.1	7.1	6.7
45°	6.0	6.0	6.3	6.0	6.0
47.5°	5.2	5.2	5.6	5.2	5.2
50°	4.8	4.8	4.8	4.8	4.8
52.5°	4.4	4.4	4.4	4.4	4.4
55°	4.0	4.0	4.0	4.0	4.0
57.5°	3.6	3.6	3.6	3.6	3.6
60°	3.2	3.2	3.2	3.2	3.2
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.4	2.4	2.4	2.4	2.4
67.5°	2.4	2.4	2.4	2.4	2.4
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
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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