

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: P743931

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743931
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-EU4DR1515309050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1972.5 lumens
Efficiency: N/A
Efficacy: 85.4 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

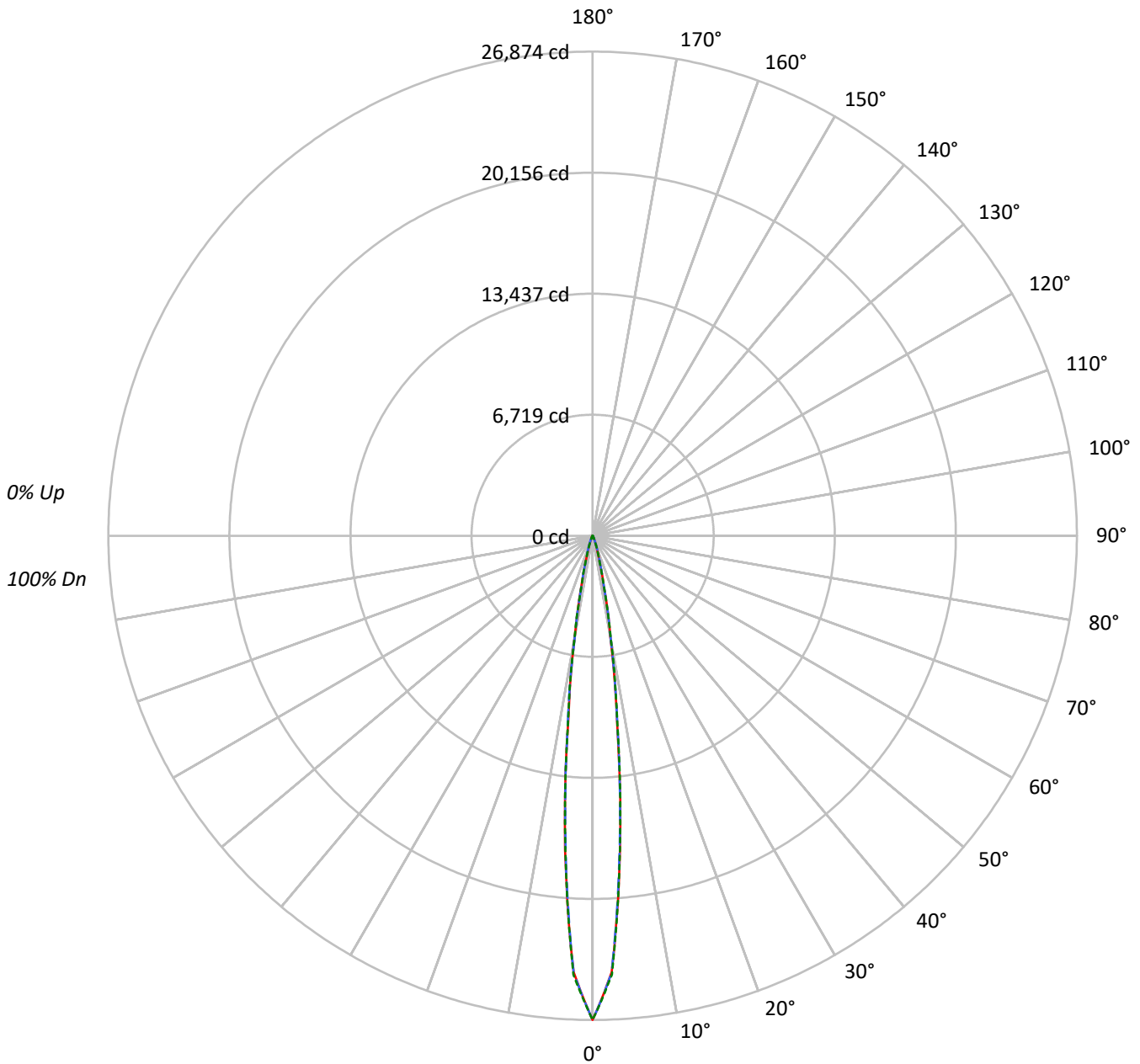


Downlight



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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°	3023906	3023906	3023906
5°	1776992	1753983	1767855
10°	530351	534065	542238
15°	131918	134489	130337
20°	39471	45706	40306
25°	13913	17722	14092
30°	5114	6732	5197
35°	2563	2890	2476
40°	1619	1775	1619
45°	1197	1274	1197
50°	953	953	953
55°	793	793	793
60°	639	639	639
65°	485	485	485
70°	417	417	417
75°	257	257	348
80°	181	181	181
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1274 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1279.3	64.9
10°-20°	526.2	26.7
20°-30°	104.5	5.3
30°-40°	26.1	1.3
40°-50°	13.7	0.7
50°-60°	10.2	0.5
60°-70°	7.2	0.4
70°-80°	4.1	0.2
80°-90°	1.2	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°	1910.0	96.8
0°-40°	1936.1	98.2
0°-60°	1960.0	99.4
0°-90°	1972.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26874	26874	26874	26874	26874	
5°	17485	17305	17259	17378	17395	1277
15°	1519	1547	1548	1521	1501	521
25°	179	202	228	201	181	94
35°	35	38	40	38	34	24
45°	17	17	18	17	17	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	7
75°	3	3	3	3	5	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°	26874.4	26874.4	26874.4	26874.4	26874.4
2.5°	24241.8	24262.3	24270.2	24294.1	24382.9
5°	17485.1	17305.3	17258.7	17378.1	17395.2
7.5°	10357.5	10393.9	10527.0	10556.6	10449.6
10°	5683.9	5730.5	5723.7	5764.7	5811.3
12.5°	2906.8	2870.4	2859.0	2905.6	2840.8
15°	1518.8	1547.3	1548.4	1521.1	1500.6
17.5°	816.9	849.9	904.5	860.1	791.8
20°	482.4	512.0	558.6	522.2	492.6
22.5°	298.1	322.0	355.0	326.5	302.6
25°	178.6	202.5	227.5	201.4	180.9
27.5°	105.8	126.3	142.2	125.1	104.7
30°	68.3	79.6	89.9	78.5	69.4
32.5°	47.8	52.3	56.9	52.3	47.8
35°	35.3	37.5	39.8	37.5	34.1
37.5°	27.3	29.6	30.7	28.4	26.2
40°	22.8	23.9	25.0	23.9	22.8
42.5°	19.3	20.5	20.5	20.5	19.3
45°	17.1	17.1	18.2	17.1	17.1
47.5°	14.8	14.8	15.9	14.8	14.8
50°	13.7	13.7	13.7	13.7	13.7
52.5°	12.5	12.5	12.5	12.5	12.5
55°	11.4	11.4	11.4	11.4	11.4
57.5°	10.2	10.2	10.2	10.2	10.2
60°	9.1	9.1	9.1	9.1	9.1
62.5°	8.0	8.0	8.0	8.0	8.0
65°	6.8	6.8	6.8	6.8	6.8
67.5°	6.8	6.8	6.8	6.8	6.8
70°	5.7	5.7	5.7	5.7	5.7
72.5°	4.6	4.6	4.6	4.6	4.6
75°	3.4	3.4	3.4	3.4	4.6
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.1	1.1	1.1	1.1	1.1
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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