

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: P744135

Luminaire Tested: LD4D20D010-EU4DR3020359035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR3020359035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1530.4 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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

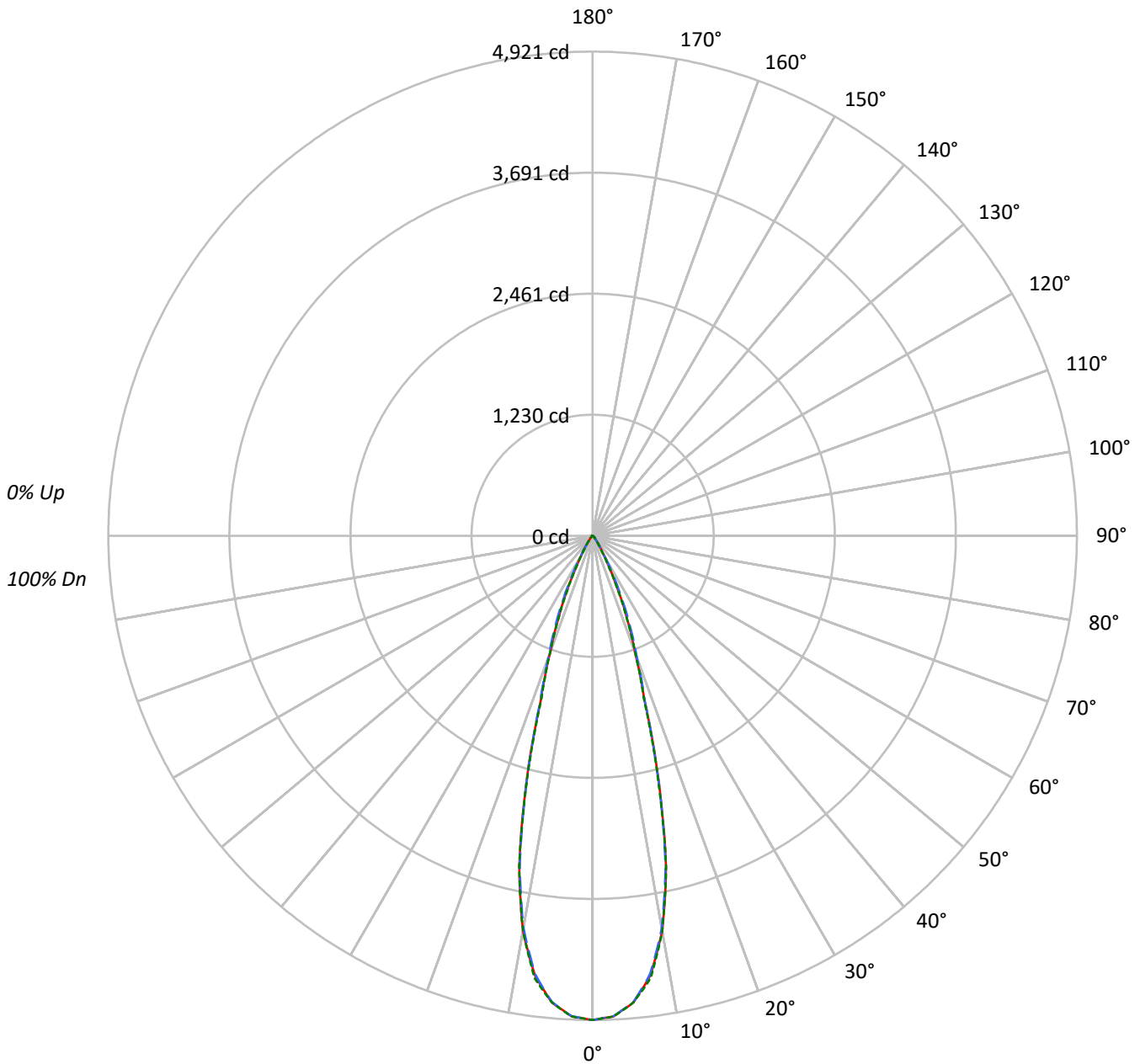


Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	376678	376678	376678
5°	365861	365439	365884
10°	316889	314659	316819
15°	206754	205645	204615
20°	102813	106666	102675
25°	51789	58402	50724
30°	20735	22591	18066
35°	9615	9213	7718
40°	4147	4606	3907
45°	2923	3637	2955
50°	1012	2644	1060
55°	587	1094	614
60°	398	490	398
65°	254	254	254
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.7	28.3
10°-20°	696.9	45.5
20°-30°	301.2	19.7
30°-40°	68.6	4.5
40°-50°	23.6	1.5
50°-60°	5.8	0.4
60°-70°	1.5	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1430.8	93.5
0°-40°	1499.5	98.0
0°-60°	1528.8	99.9
0°-90°	1530.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4921	4921	4921	4921	4921	
5°	4762	4757	4756	4766	4762	433
15°	2609	2578	2595	2587	2582	699
25°	613	636	692	620	601	294
35°	103	105	99	98	83	70
45°	27	34	34	34	27	19
55°	4	5	8	5	5	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	4921.1	4921.1	4921.1	4921.1	4921.1
2.5°	4888.5	4885.1	4887.0	4889.4	4890.4
5°	4761.6	4757.0	4756.1	4766.0	4761.9
7.5°	4505.7	4499.2	4489.3	4511.8	4532.8
10°	4077.1	4069.9	4048.4	4059.0	4076.2
12.5°	3444.4	3420.9	3420.5	3454.3	3449.7
15°	2609.1	2577.7	2595.1	2586.6	2582.1
17.5°	1754.5	1742.5	1765.7	1758.7	1728.5
20°	1262.2	1265.3	1309.5	1287.3	1260.5
22.5°	921.0	932.4	984.8	927.6	906.5
25°	613.2	636.4	691.5	620.2	600.6
27.5°	377.2	387.8	443.6	372.3	361.7
30°	234.6	229.3	255.6	219.4	204.4
32.5°	153.9	147.1	155.6	139.6	127.6
35°	102.9	105.1	98.6	97.9	82.6
37.5°	64.3	73.9	65.3	69.6	53.2
40°	41.5	53.6	46.1	51.0	39.1
42.5°	34.1	41.3	37.9	40.3	34.8
45°	27.0	33.6	33.6	33.6	27.3
47.5°	15.0	22.5	28.8	23.0	15.9
50°	8.5	11.3	22.2	11.9	8.9
52.5°	5.8	6.5	15.2	6.8	6.0
55°	4.4	4.6	8.2	4.8	4.6
57.5°	3.4	3.6	4.4	3.6	3.4
60°	2.6	2.6	3.2	2.9	2.6
62.5°	1.9	1.9	2.2	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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