

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: P744150

Luminaire Tested: LD4D20D010-EU4DR3020359040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744150
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-EU4DR3020359040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2051.2 lumens
Efficiency: N/A
Efficacy: 88.8 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

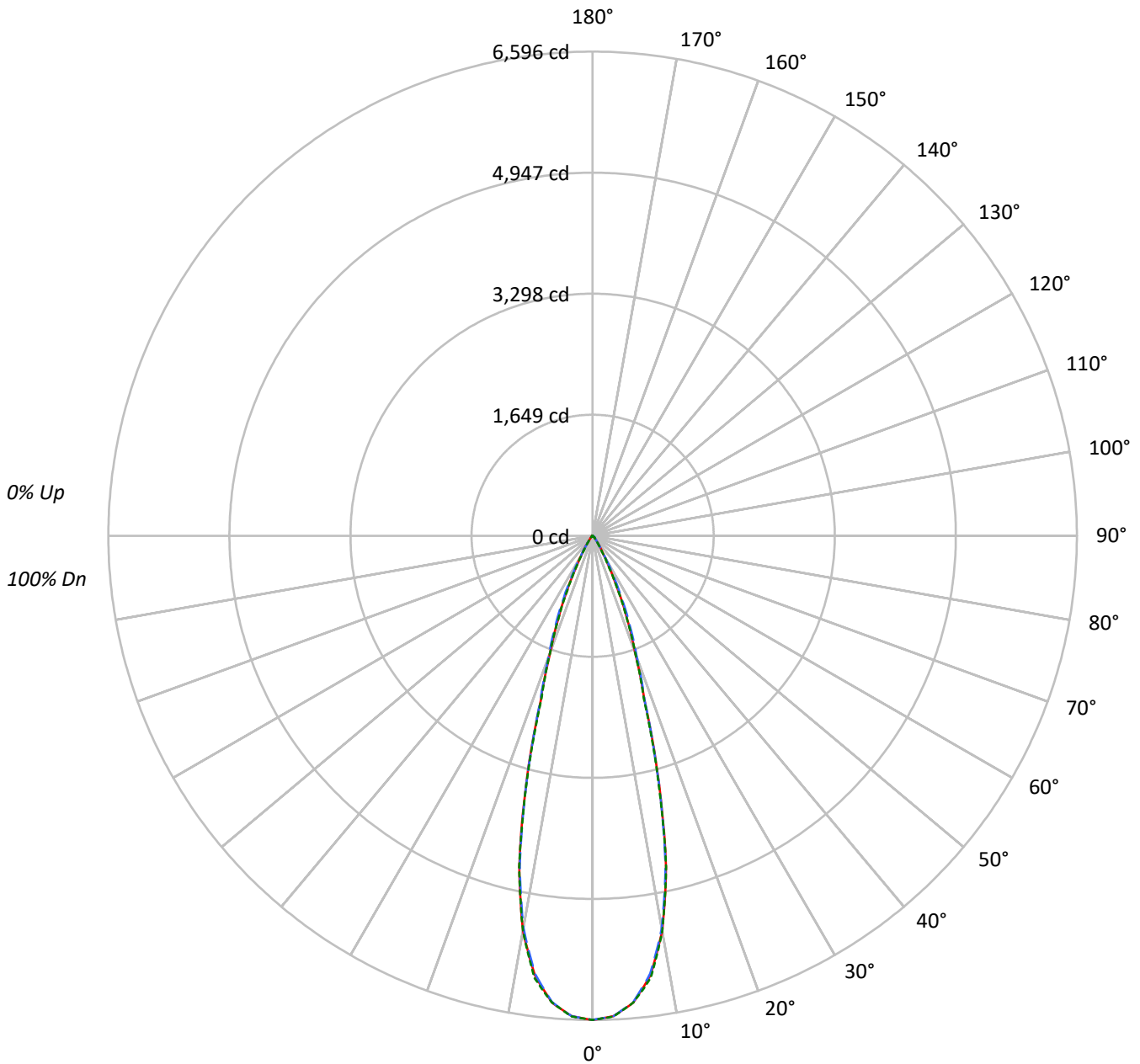


Downlight



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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					70					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	100	100	100	100		
	1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96	96	96	96	96	96		
	2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92	92	92	92	92	92		
	3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	89	89	89	89	89		
	4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85	85	85	85	85	85		
	5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82	82	82	82	82	82		
	6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79	79	79	79	79	79		
	7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77	77	77	77	77	77		
	8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74	74	74	74	74	74		
	9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72	72	72	72	72	72		
	10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69	69	69	69	69	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	504842	504842	504842
5°	490351	489782	490374
10°	424716	421724	424615
15°	277107	275617	274230
20°	137791	142963	137603
25°	69406	78266	67987
30°	27788	30281	24209
35°	12895	12344	10353
40°	5566	6175	5246
45°	3929	4871	3962
50°	1346	3549	1429
55°	774	1468	814
60°	551	643	551
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4871 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.0	28.3
10°-20°	934.1	45.5
20°-30°	403.6	19.7
30°-40°	92.0	4.5
40°-50°	31.6	1.5
50°-60°	7.7	0.4
60°-70°	2.0	0.1
70°-80°	0.2	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°	1917.7	93.5
0°-40°	2009.7	98.0
0°-60°	2049.0	99.9
0°-90°	2051.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2051.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6596	6596	6596	6596	6596	
5°	6382	6376	6374	6388	6382	580
15°	3497	3455	3478	3467	3461	936
25°	822	853	927	831	805	393
35°	138	141	132	131	111	94
45°	36	45	45	45	37	26
55°	6	6	11	6	6	6
65°	2	2	2	2	2	2
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°	6595.5	6595.5	6595.5	6595.5	6595.5
2.5°	6551.8	6547.3	6549.9	6553.1	6554.4
5°	6381.8	6375.6	6374.4	6387.6	6382.1
7.5°	6038.9	6030.1	6016.8	6047.0	6075.2
10°	5464.4	5454.7	5425.9	5440.1	5463.1
12.5°	4616.3	4584.9	4584.3	4629.6	4623.5
15°	3496.9	3454.8	3478.1	3466.8	3460.6
17.5°	2351.6	2335.3	2366.5	2357.1	2316.6
20°	1691.6	1695.8	1755.1	1725.3	1689.3
22.5°	1234.4	1249.6	1319.9	1243.1	1214.9
25°	821.8	853.0	926.7	831.2	805.0
27.5°	505.5	519.7	594.6	499.0	484.8
30°	314.4	307.3	342.6	294.0	273.9
32.5°	206.3	197.2	208.6	187.2	171.0
35°	138.0	140.9	132.1	131.1	110.8
37.5°	86.1	99.1	87.4	93.3	71.2
40°	55.7	71.9	61.8	68.4	52.5
42.5°	45.7	55.3	50.8	54.1	46.6
45°	36.3	45.0	45.0	45.0	36.6
47.5°	20.1	30.1	38.6	30.8	21.4
50°	11.3	15.2	29.8	15.9	12.0
52.5°	7.8	8.8	20.4	9.1	8.1
55°	5.8	6.1	11.0	6.5	6.1
57.5°	4.5	4.9	5.8	4.9	4.5
60°	3.6	3.6	4.2	3.9	3.6
62.5°	2.6	2.6	2.9	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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