

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: P745986

Luminaire Tested: LD4D30D010-EU4DR3020359027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745986
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: LD4D30D010-EU4DR3020359027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2666.2 lumens
Efficiency: N/A
Efficacy: 91.9 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): 29
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

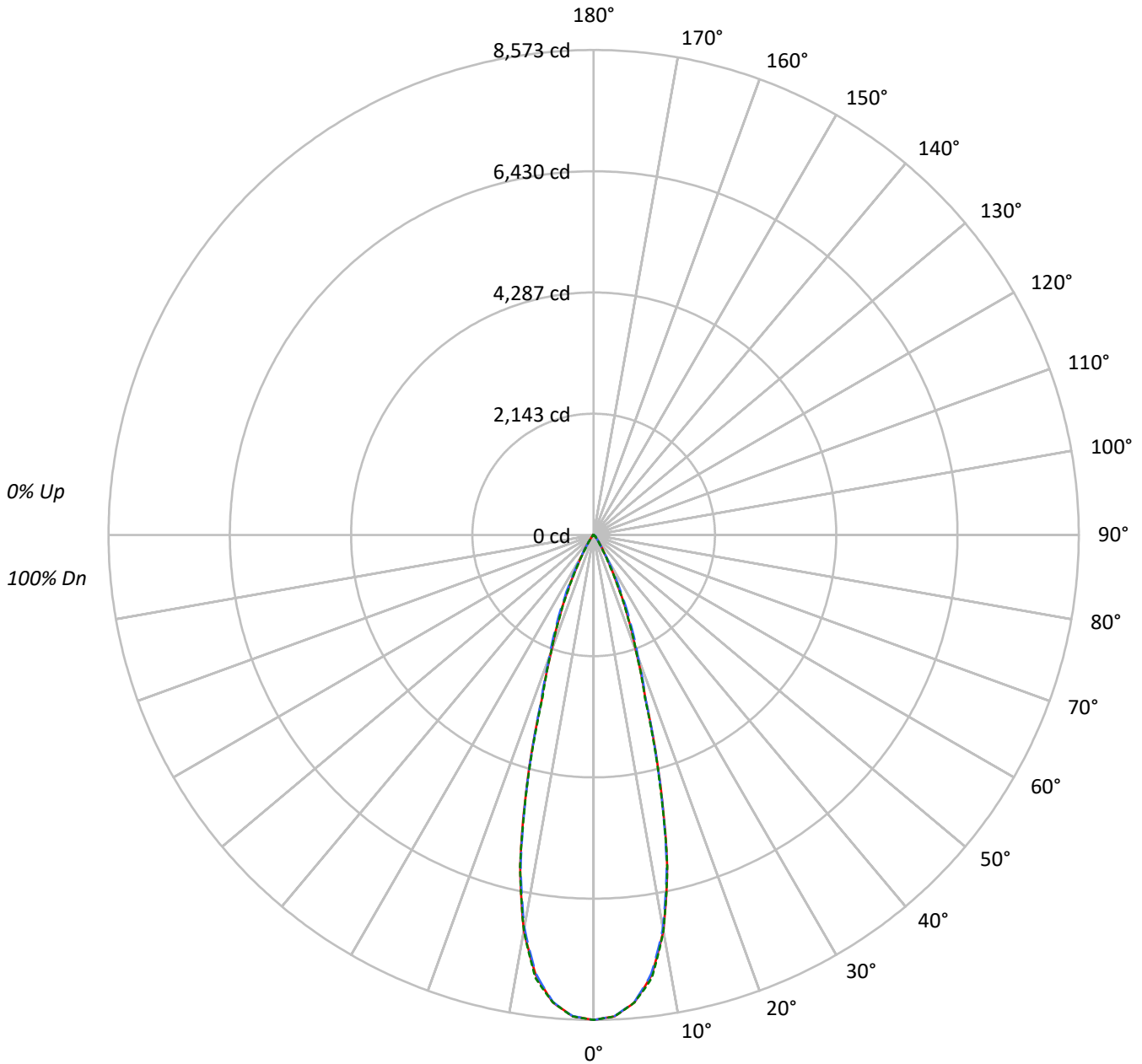


Downlight



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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	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°	656207	656207	656207
5°	637368	636631	637399
10°	552059	548165	551927
15°	360194	358252	356453
20°	179105	185825	178869
25°	90225	101736	88375
30°	36123	39358	31474
35°	16754	16044	13446
40°	7234	8034	6815
45°	5109	6333	5153
50°	1750	4608	1858
55°	1014	1908	1068
60°	704	842	704
65°	453	453	453
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6333 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.9	28.3
10°-20°	1214.1	45.5
20°-30°	524.7	19.7
30°-40°	119.6	4.5
40°-50°	41.1	1.5
50°-60°	10.0	0.4
60°-70°	2.6	0.1
70°-80°	0.3	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°	2492.6	93.5
0°-40°	2612.2	98.0
0°-60°	2663.3	99.9
0°-90°	2666.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2666.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8573	8573	8573	8573	8573	
5°	8295	8287	8286	8303	8296	754
15°	4545	4491	4521	4506	4498	1217
25°	1068	1109	1205	1080	1046	511
35°	179	183	172	170	144	122
45°	47	58	58	58	48	33
55°	8	8	14	8	8	7
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°	8573.0	8573.0	8573.0	8573.0	8573.0
2.5°	8516.2	8510.3	8513.6	8517.9	8519.5
5°	8295.2	8287.2	8285.6	8302.8	8295.6
7.5°	7849.5	7838.1	7820.8	7860.0	7896.6
10°	7102.8	7090.2	7052.7	7071.2	7101.1
12.5°	6000.5	5959.6	5958.7	6017.7	6009.7
15°	4545.4	4490.7	4520.9	4506.2	4498.2
17.5°	3056.6	3035.6	3076.0	3063.8	3011.1
20°	2198.8	2204.3	2281.3	2242.6	2195.9
22.5°	1604.5	1624.3	1715.6	1615.8	1579.2
25°	1068.3	1108.7	1204.6	1080.5	1046.4
27.5°	657.1	675.6	772.8	648.6	630.1
30°	408.7	399.5	445.3	382.2	356.1
32.5°	268.1	256.3	271.1	243.3	222.2
35°	179.3	183.1	171.7	170.5	143.9
37.5°	112.0	128.8	113.6	121.2	92.6
40°	72.4	93.4	80.4	88.8	68.2
42.5°	59.4	72.0	66.1	70.3	60.6
45°	47.2	58.5	58.5	58.5	47.6
47.5°	26.1	39.1	50.1	40.0	27.8
50°	14.7	19.8	38.7	20.6	15.6
52.5°	10.1	11.3	26.5	11.8	10.5
55°	7.6	8.0	14.3	8.4	8.0
57.5°	5.9	6.3	7.6	6.3	5.9
60°	4.6	4.6	5.5	5.0	4.6
62.5°	3.4	3.4	3.8	3.4	3.4
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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