

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: P746041

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746041
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-EU4DR3020359050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2129.1 lumens
Efficiency: N/A
Efficacy: 73.4 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 (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



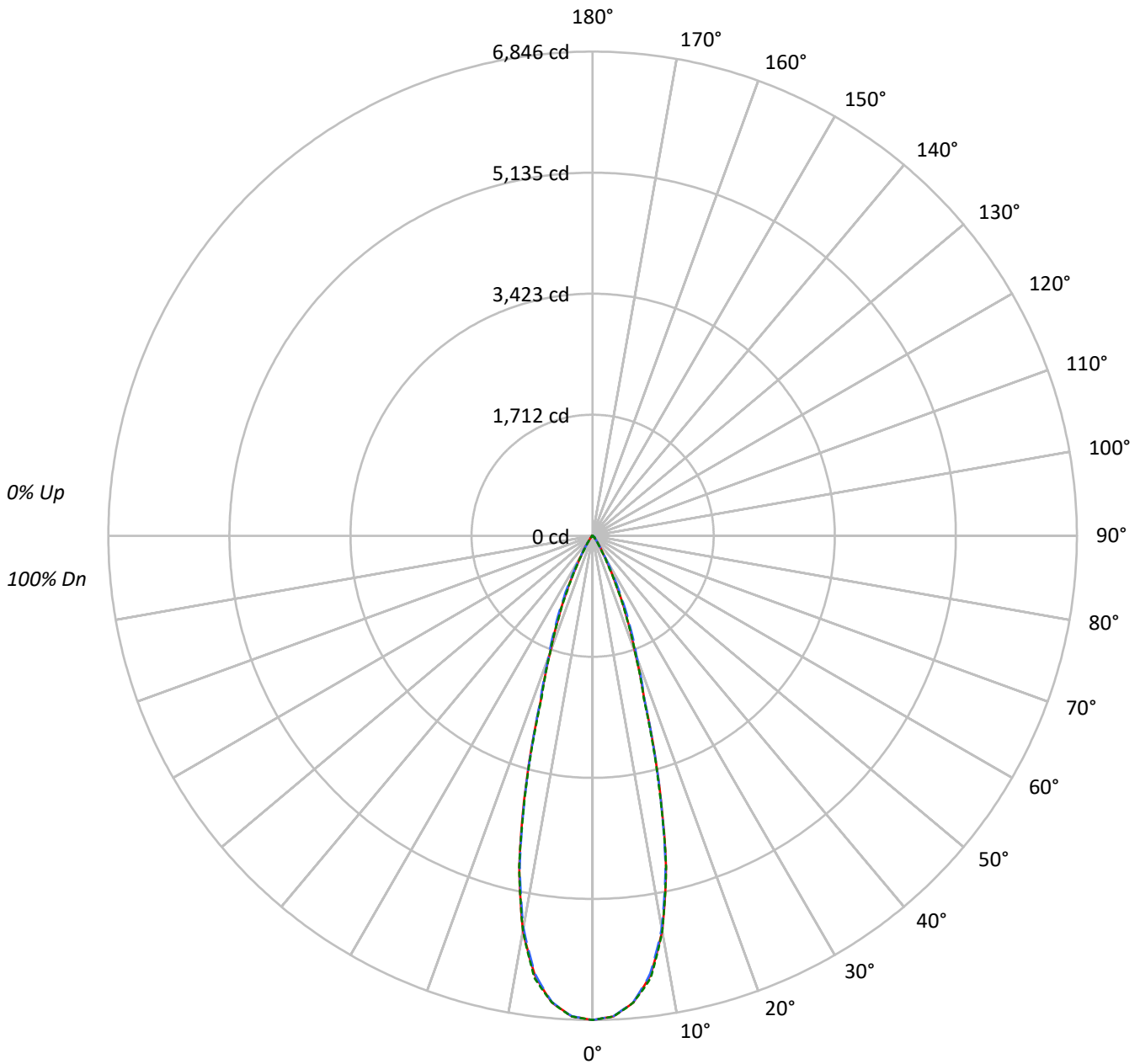
Downlight



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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	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°	524039	524039	524039
5°	508999	508399	509022
10°	440867	437758	440758
15°	287646	286101	284659
20°	143028	148396	142841
25°	72050	81247	70572
30°	28849	31430	25137
35°	13381	12820	10737
40°	5775	6415	5436
45°	4070	5055	4113
50°	1393	3680	1477
55°	814	1521	854
60°	566	674	566
65°	362	362	362
70°	224	157	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: 5055 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.0	28.3
10°-20°	969.6	45.5
20°-30°	419.0	19.7
30°-40°	95.5	4.5
40°-50°	32.8	1.5
50°-60°	8.0	0.4
60°-70°	2.1	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°	1990.6	93.5
0°-40°	2086.1	98.0
0°-60°	2126.9	99.9
0°-90°	2129.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6846	6846	6846	6846	6846	
5°	6624	6618	6617	6630	6625	603
15°	3630	3586	3610	3599	3592	972
25°	853	885	962	863	836	408
35°	143	146	137	136	115	97
45°	38	47	47	47	38	27
55°	6	6	11	7	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°	6846.3	6846.3	6846.3	6846.3	6846.3
2.5°	6800.9	6796.2	6798.9	6802.3	6803.6
5°	6624.5	6618.1	6616.7	6630.5	6624.8
7.5°	6268.5	6259.4	6245.6	6276.9	6306.1
10°	5672.2	5662.1	5632.2	5647.0	5670.8
12.5°	4791.9	4759.3	4758.6	4805.7	4799.3
15°	3629.9	3586.2	3610.4	3598.6	3592.2
17.5°	2441.0	2424.2	2456.5	2446.7	2404.7
20°	1755.9	1760.3	1821.8	1790.9	1753.6
22.5°	1281.3	1297.1	1370.1	1290.4	1261.2
25°	853.1	885.4	962.0	862.9	835.6
27.5°	524.7	539.5	617.1	518.0	503.2
30°	326.4	319.0	355.6	305.2	284.4
32.5°	214.1	204.7	216.5	194.3	177.5
35°	143.2	146.2	137.2	136.1	114.9
37.5°	89.4	102.8	90.8	96.8	74.0
40°	57.8	74.6	64.2	70.9	54.4
42.5°	47.4	57.5	52.8	56.1	48.4
45°	37.6	46.7	46.7	46.7	38.0
47.5°	20.9	31.3	40.0	31.9	22.2
50°	11.7	15.8	30.9	16.4	12.4
52.5°	8.1	9.1	21.2	9.4	8.4
55°	6.1	6.4	11.4	6.7	6.4
57.5°	4.7	5.0	6.1	5.0	4.7
60°	3.7	3.7	4.4	4.0	3.7
62.5°	2.7	2.7	3.0	2.7	2.7
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	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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