

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: P747537

Luminaire Tested: LD4D40BD010-EU4DR3040509024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747537
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: LD4D40BD010-EU4DR3040509024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

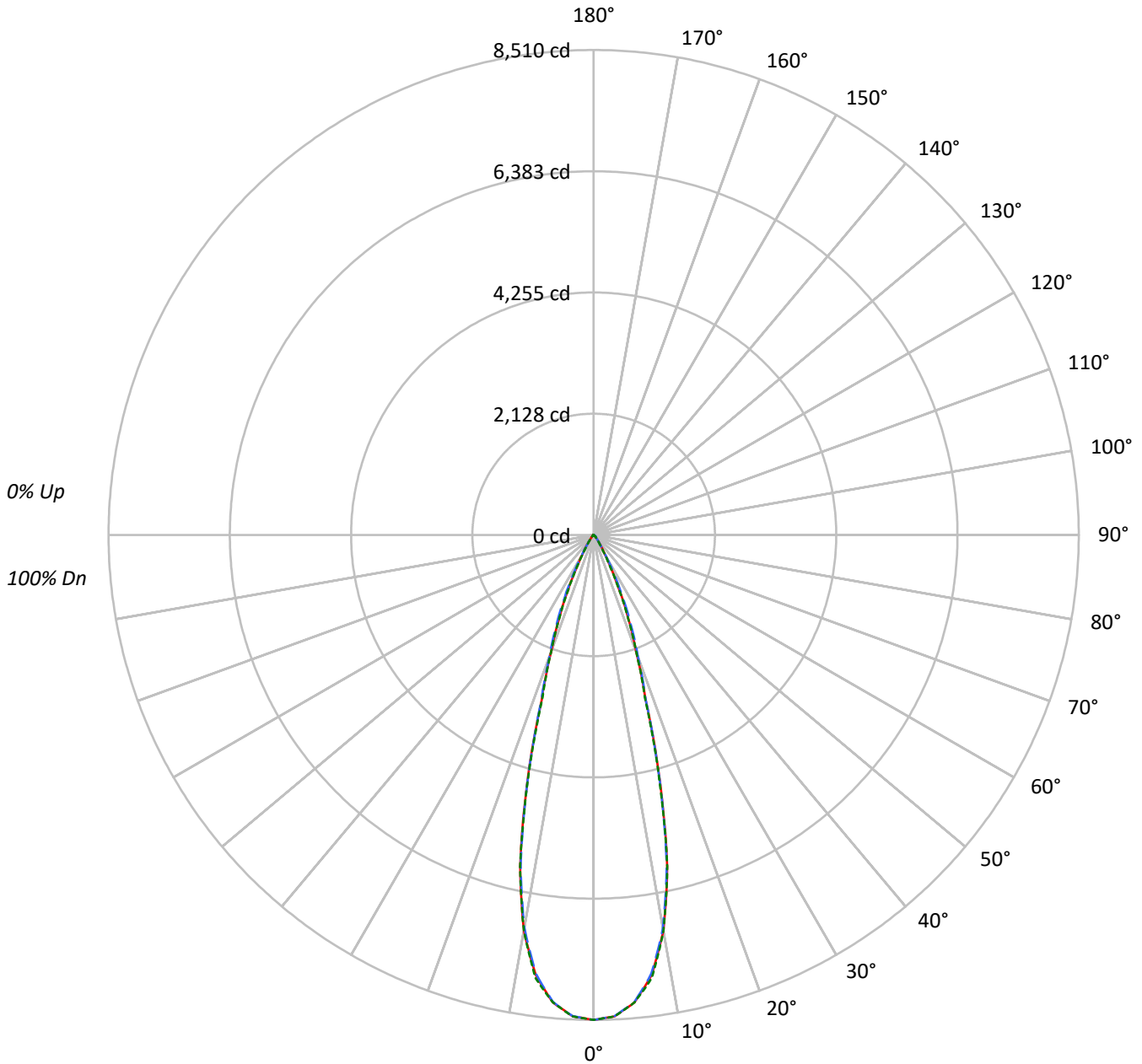
Lumens per Lamp: N/A
Luminaire Lumens: 2646.6 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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



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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								
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°	651384	651384	651384
5°	632689	631951	632720
10°	548002	544139	547870
15°	357547	355621	353838
20°	177794	184457	177549
25°	89557	100993	87725
30°	35858	39066	31244
35°	16633	15932	13353
40°	7184	7974	6765
45°	5066	6289	5109
50°	1739	4573	1846
55°	1001	1895	1054
60°	704	827	704
65°	453	453	453
70°	291	179	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: 6289 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.3	28.3
10°-20°	1205.2	45.5
20°-30°	520.8	19.7
30°-40°	118.7	4.5
40°-50°	40.8	1.5
50°-60°	9.9	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°	2474.3	93.5
0°-40°	2593.0	98.0
0°-60°	2643.7	99.9
0°-90°	2646.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2646.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8510	8510	8510	8510	8510	
5°	8234	8226	8225	8242	8235	749
15°	4512	4458	4488	4473	4465	1208
25°	1060	1100	1196	1072	1039	508
35°	178	182	170	169	143	121
45°	47	58	58	58	47	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8510.0	8510.0	8510.0	8510.0	8510.0
2.5°	8453.6	8447.8	8451.1	8455.3	8457.0
5°	8234.3	8226.3	8224.7	8241.8	8234.7
7.5°	7791.8	7780.5	7763.4	7802.2	7838.6
10°	7050.6	7038.1	7000.9	7019.3	7048.9
12.5°	5956.3	5915.8	5915.0	5973.5	5965.5
15°	4512.0	4457.7	4487.7	4473.1	4465.2
17.5°	3034.2	3013.3	3053.4	3041.3	2989.0
20°	2182.7	2188.1	2264.5	2226.1	2179.7
22.5°	1592.7	1612.3	1703.0	1604.0	1567.6
25°	1060.4	1100.5	1195.8	1072.5	1038.7
27.5°	652.2	670.6	767.1	643.9	625.5
30°	405.7	396.5	442.0	379.4	353.5
32.5°	266.1	254.4	269.1	241.5	220.6
35°	178.0	181.7	170.5	169.2	142.9
37.5°	111.1	127.9	112.8	120.3	91.9
40°	71.9	92.8	79.8	88.2	67.7
42.5°	58.9	71.4	65.6	69.8	60.2
45°	46.8	58.1	58.1	58.1	47.2
47.5°	25.9	38.9	49.7	39.7	27.6
50°	14.6	19.6	38.4	20.5	15.5
52.5°	10.0	11.3	26.3	11.7	10.4
55°	7.5	7.9	14.2	8.4	7.9
57.5°	5.8	6.3	7.5	6.3	5.8
60°	4.6	4.6	5.4	5.0	4.6
62.5°	3.3	3.3	3.8	3.3	3.3
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	0.8	0.8	0.8	1.3
72.5°	0.8	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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