

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: P1310859

Luminaire Tested: LDSQA3D24R509035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D24R509035D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

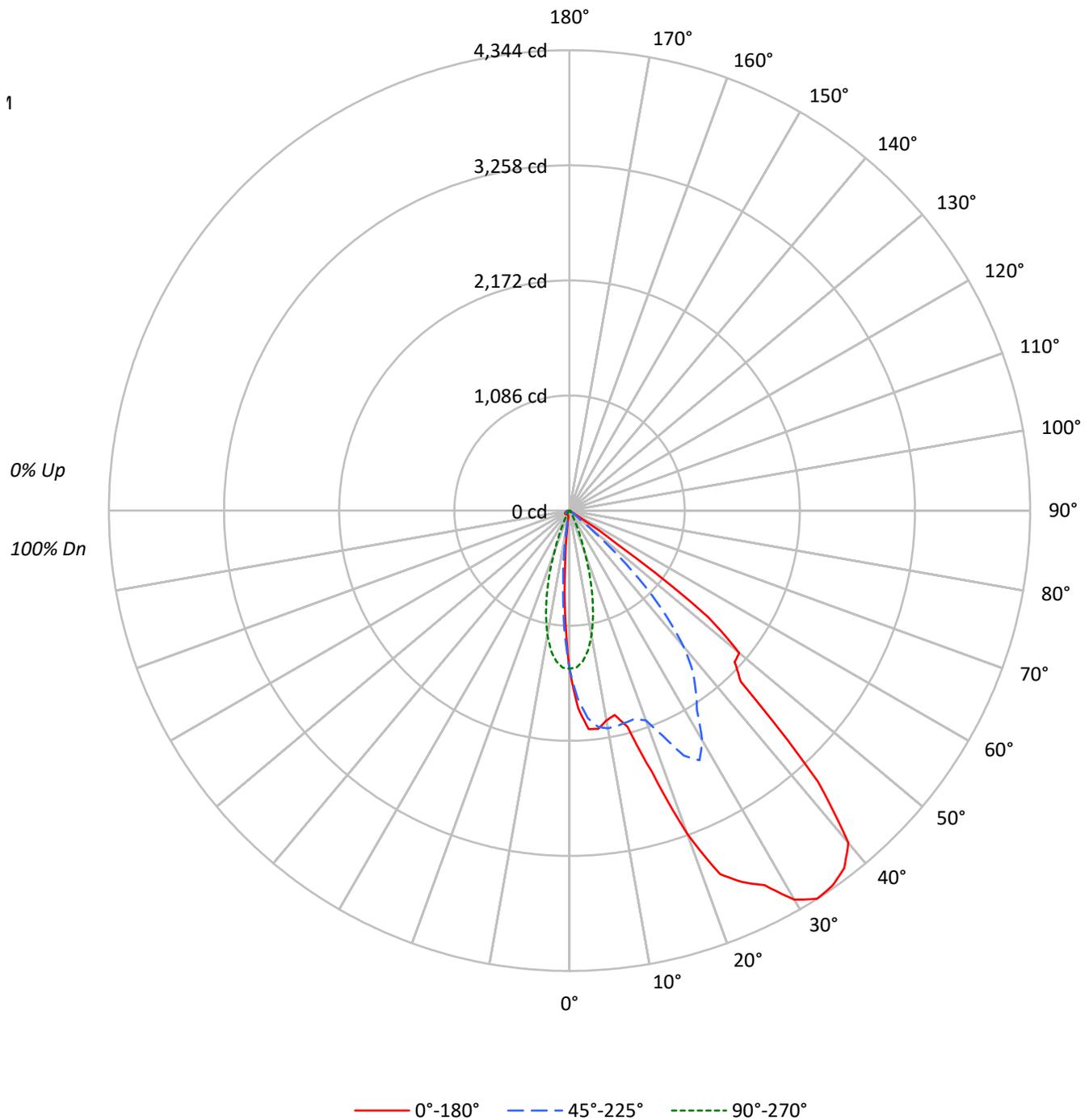
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2318.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	256663	256663	256663	256663	256663
5°	357880	339520	246700	118579	76932
10°	351298	364868	208491	24990	10703
15°	376726	368720	147417	8737	8380
20°	594894	386125	77819	7478	7863
25°	735137	484910	31031	6974	7753
30°	842812	497323	12588	6901	8114
35°	908637	436511	5571	7296	9020
40°	919764	375900	4137	8251	10094
45°	555900	243633	3970	8939	11447
50°	560109	42119	4367	10396	13129
55°	165504	2462	4894	11650	14713
60°	2824	2824	4926	12641	16189
65°	2486	2486	4972	13326	17482
70°	3072	3072	5136	14401	19538
75°	2728	2728	5456	14972	20362
80°	1984	4066	6050	14183	22315
85°	3952	8102	8102	16203	20156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 634960 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	5.2
10°-20°	299.2	12.9
20°-30°	560.6	24.2
30°-40°	670.2	28.9
40°-50°	480.3	20.7
50°-60°	148.0	6.4
60°-70°	19.3	0.8
70°-80°	14.1	0.6
80°-90°	5.7	0.2
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°	980.3	42.3
0°-40°	1650.5	71.2
0°-60°	2278.9	98.3
0°-90°	2318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2318.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1490	1490	1490	1490	1490	
5°	2070	1964	1427	686	445	192
15°	2113	2068	827	49	47	677
25°	3869	2552	163	37	41	1783
35°	4322	2076	26	35	43	2681
45°	2282	1000	16	37	47	2096
55°	551	8	16	39	49	710
65°	6	6	12	33	43	7
75°	4	4	8	22	31	4
85°	2	4	4	8	10	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1863.9	1867.9	1874.1	1857.7	1847.5	1839.4	1825.1	1821.0	1786.3	1772.0	1757.7
5°	2070.1	2066.0	2070.1	2063.9	2059.8	2047.6	2035.4	2014.9	1992.5	1963.9	1931.2
7.5°	2076.2	2072.1	2080.3	2080.3	2088.4	2088.4	2088.4	2090.5	2078.2	2057.8	2029.2
10°	2008.8	2008.8	2017.0	2012.9	2027.2	2033.3	2047.6	2072.1	2084.3	2086.4	2078.2
12.5°	1974.1	1974.1	1976.1	1968.0	1972.1	1978.2	1994.5	2023.1	2051.7	2080.3	2096.6
15°	2112.9	2117.0	2088.4	2047.6	2017.0	1984.3	1974.1	1992.5	2023.1	2068.0	2104.8
17.5°	2584.5	2590.6	2560.0	2462.0	2368.1	2233.4	2112.9	2053.7	2021.1	2057.8	2106.8
20°	3245.9	3223.5	3170.4	3066.3	2929.5	2721.3	2533.5	2343.6	2161.9	2106.8	2123.1
22.5°	3713.4	3705.3	3662.4	3546.0	3427.6	3233.7	2994.8	2729.5	2466.1	2298.7	2210.9
25°	3868.6	3862.5	3823.7	3754.3	3688.9	3542.0	3327.6	3060.2	2784.6	2551.8	2331.4
27.5°	3985.0	3976.8	3915.5	3838.0	3770.6	3621.6	3425.6	3223.5	2970.3	2656.0	2317.1
30°	4238.1	4215.6	4129.9	3991.1	3862.5	3656.3	3439.9	3188.8	2845.8	2500.8	2170.1
32.5°	4344.3	4332.0	4258.5	4146.2	4005.4	3735.9	3407.2	2986.7	2535.5	2237.5	1996.6
35°	4321.8	4303.4	4227.9	4099.3	3927.8	3668.5	3229.6	2651.9	2284.4	2076.2	1804.7
37.5°	4254.4	4227.9	4138.1	3987.0	3778.8	3439.9	2866.2	2380.4	2143.5	1908.8	1543.4
40°	4091.1	4048.2	3944.1	3786.9	3578.7	3133.7	2535.5	2217.0	1996.6	1672.0	1251.4
42.5°	3466.4	3444.0	3495.0	3468.5	3284.7	2760.1	2300.7	2068.0	1763.8	1351.5	906.4
45°	2282.4	2321.2	2413.0	2570.2	2607.0	2374.2	2108.8	1823.0	1451.5	1000.3	522.6
47.5°	2112.9	2104.8	2127.2	2157.8	2164.0	2066.0	1825.1	1506.6	1077.9	571.6	144.9
50°	2090.5	2078.2	2059.8	2023.1	1945.5	1755.7	1482.1	1098.3	622.6	157.2	10.2
52.5°	1651.6	1639.3	1639.3	1586.2	1486.2	1302.5	1022.8	604.3	173.5	10.2	8.2
55°	551.2	587.9	581.8	579.8	624.7	575.7	441.0	155.2	14.3	8.2	8.2
57.5°	10.2	10.2	10.2	18.4	28.6	40.8	24.5	12.2	8.2	8.2	8.2
60°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
62.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
65°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.2
67.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.1	6.1	6.1
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.1
77.5°	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1725.0	1696.5	1641.3	1484.2	1310.6	1112.6	977.9	961.5
5°	1880.2	1837.3	1747.5	1427.0	1030.9	685.9	510.4	445.0
7.5°	1982.3	1925.1	1814.9	1333.1	751.3	361.3	193.9	155.2
10°	2043.5	1990.4	1849.6	1192.2	477.7	142.9	65.3	61.2
12.5°	2076.2	2025.1	1861.8	1022.8	269.5	65.3	51.0	51.0
15°	2098.6	2043.5	1843.5	826.8	134.7	49.0	47.0	47.0
17.5°	2108.8	2041.5	1790.4	622.6	71.5	44.9	44.9	44.9
20°	2115.0	2019.0	1692.4	424.6	49.0	40.8	42.9	42.9
22.5°	2121.1	1963.9	1563.8	269.5	38.8	38.8	40.8	40.8
25°	2108.8	1867.9	1382.1	163.3	34.7	36.7	38.8	40.8
27.5°	2021.1	1723.0	1161.6	100.0	30.6	34.7	38.8	40.8
30°	1870.0	1510.7	906.4	63.3	28.6	34.7	38.8	40.8
32.5°	1674.0	1267.8	647.1	38.8	28.6	34.7	38.8	40.8
35°	1410.7	969.7	420.5	26.5	28.6	34.7	40.8	42.9
37.5°	1114.6	677.8	226.6	20.4	28.6	34.7	40.8	42.9
40°	802.3	406.3	81.7	18.4	26.5	36.7	42.9	44.9
42.5°	469.5	151.1	14.3	16.3	26.5	36.7	42.9	44.9
45°	134.7	16.3	8.2	16.3	26.5	36.7	44.9	47.0
47.5°	10.2	6.1	8.2	16.3	26.5	36.7	44.9	49.0
50°	6.1	6.1	6.1	16.3	26.5	38.8	47.0	49.0
52.5°	8.2	8.2	8.2	16.3	26.5	38.8	47.0	49.0
55°	8.2	8.2	8.2	16.3	26.5	38.8	47.0	49.0
57.5°	8.2	8.2	8.2	16.3	26.5	36.7	47.0	49.0
60°	8.2	8.2	8.2	14.3	24.5	36.7	44.9	47.0
62.5°	8.2	8.2	8.2	14.3	24.5	34.7	44.9	44.9
65°	8.2	8.2	8.2	12.2	22.5	32.7	40.8	42.9
67.5°	8.2	8.2	8.2	12.2	20.4	30.6	38.8	40.8
70°	6.1	8.2	8.2	10.2	18.4	28.6	36.7	38.8
72.5°	6.1	6.1	8.2	10.2	16.3	24.5	32.7	34.7
75°	6.1	6.1	6.1	8.2	14.3	22.5	28.6	30.6
77.5°	6.1	6.1	6.1	8.2	12.2	18.4	26.5	26.5
80°	4.1	6.1	6.1	6.1	10.2	14.3	20.4	22.5
82.5°	4.1	4.1	4.1	6.1	8.2	12.2	16.3	16.3
85°	4.1	4.1	4.1	4.1	6.1	8.2	10.2	10.2
87.5°	2.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)