

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: P1320134

Luminaire Tested: LDSQA3D13R409840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R409840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

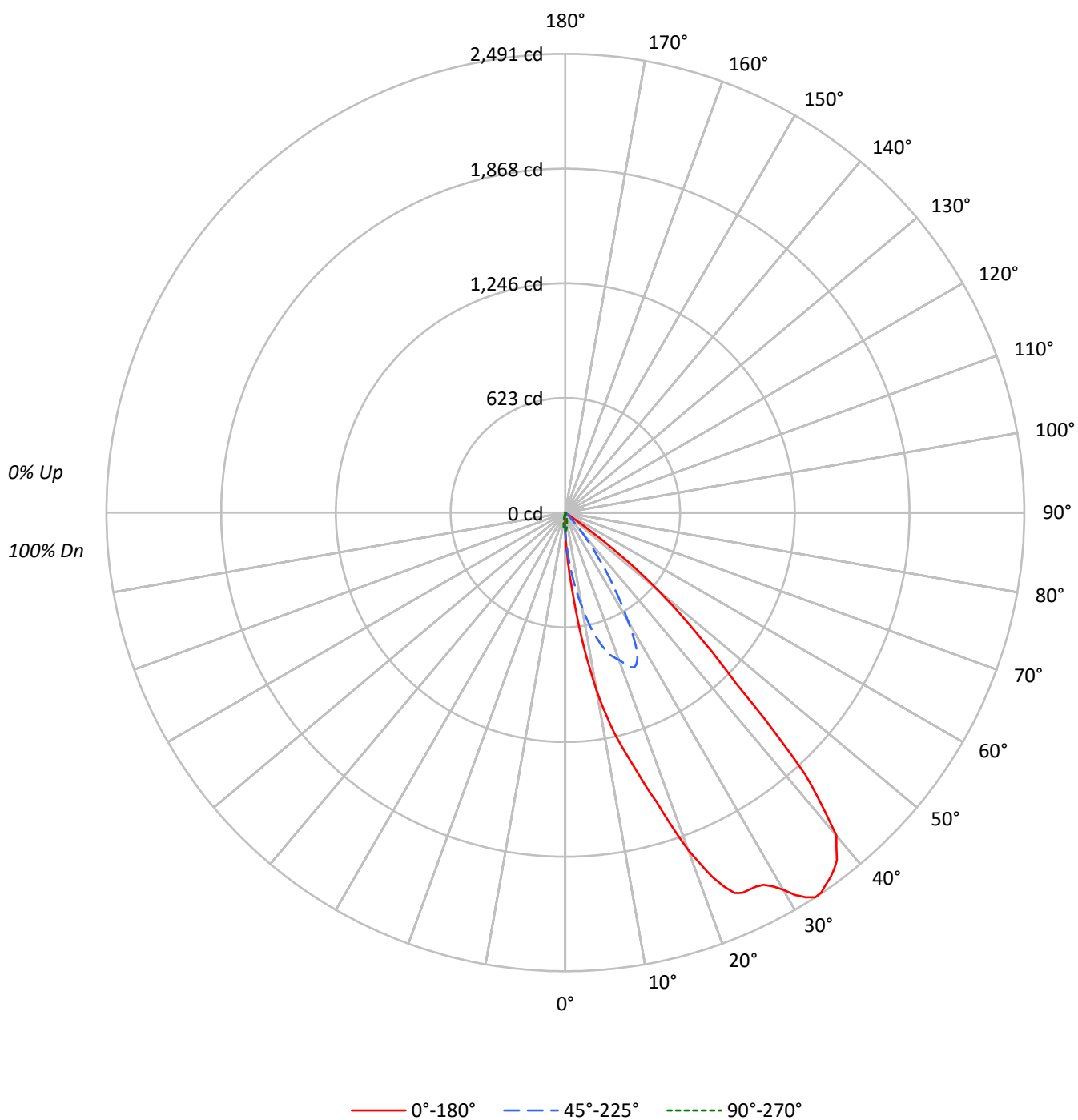
Lumens per Lamp: N/A
Luminaire Lumens: 836.0 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16843	16843	16843	16843	16843
5°	71469	48718	14781	2662	1331
10°	171802	90605	9164	262	0
15°	252862	131637	3851	0	0
20°	357424	156059	1411	0	0
25°	432919	173228	0	0	0
30°	470039	135507	0	0	0
35°	518296	79325	0	0	0
40°	514435	32194	0	0	0
45°	318600	9377	0	0	0
50°	177397	214	0	0	0
55°	17325	0	0	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	403	755	0	0
75°	0	532	998	0	0
80°	0	793	1488	0	0
85°	0	1581	2964	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 320086 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.3	2.2
10°-20°	107.8	12.9
20°-30°	246.0	29.4
30°-40°	290.4	34.7
40°-50°	155.2	18.6
50°-60°	16.9	2.0
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.5	0.1
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°	372.1	44.5
0°-40°	662.5	79.2
0°-60°	834.5	99.8
0°-90°	836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	98	98	98	98	98	
5°	413	282	86	15	8	58
15°	1418	738	22	0	0	421
25°	2278	912	0	0	0	1034
35°	2465	377	0	0	0	1523
45°	1308	38	0	0	0	1079
55°	58	0	0	0	0	162
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2.5°	227.9	223.3	226.4	220.2	220.2	206.3	207.1	195.6	178.6	136.3	97.0
5°	413.4	431.9	417.3	398.0	387.3	373.4	354.9	335.7	281.8	170.1	85.5
7.5°	692.1	690.6	666.0	645.2	621.3	584.4	549.7	502.8	401.1	194.8	70.8
10°	982.4	977.0	949.3	931.6	886.2	833.0	762.2	686.8	518.1	203.3	52.4
12.5°	1224.2	1217.2	1194.1	1164.1	1114.1	1047.1	970.9	871.5	641.3	194.0	33.9
15°	1418.2	1416.6	1394.3	1353.5	1301.1	1235.7	1149.5	1030.1	738.3	170.1	21.6
17.5°	1648.4	1657.6	1617.6	1573.7	1498.2	1406.6	1301.1	1164.9	809.9	140.9	13.9
20°	1950.2	1937.1	1900.1	1836.2	1763.9	1653.8	1504.4	1309.6	851.5	109.3	7.7
21°	2042.6	2037.2	1998.7	1939.4	1859.3	1747.7	1593.7	1383.5	870.8	97.8	6.2
22°	2136.5	2127.3	2097.2	2039.5	1964.0	1837.8	1668.4	1459.7	895.4	85.5	3.8
23°	2206.6	2202.7	2179.6	2122.6	2044.9	1922.5	1749.2	1530.6	912.3	73.9	2.3
24°	2260.5	2255.8	2232.7	2189.6	2122.6	1994.8	1830.8	1606.8	919.3	63.9	0.8
25°	2278.2	2280.5	2266.6	2232.7	2176.5	2048.7	1891.7	1666.9	911.6	54.7	0.0
26°	2278.9	2285.9	2275.9	2256.6	2210.4	2091.8	1948.6	1702.3	891.6	46.2	0.0
27°	2278.9	2285.9	2275.9	2261.2	2215.8	2116.5	1979.4	1706.1	860.8	39.3	0.0
28°	2289.7	2293.6	2280.5	2262.8	2213.5	2124.2	1987.9	1683.0	811.5	33.9	0.0
29°	2319.7	2315.9	2294.3	2270.5	2211.2	2124.2	1962.5	1639.1	749.9	28.5	0.0
30°	2363.6	2363.6	2329.7	2292.0	2222.0	2123.4	1921.7	1559.8	681.4	23.1	0.0
31°	2422.9	2417.5	2383.6	2327.4	2245.1	2123.4	1861.6	1472.1	618.2	20.0	0.0
32°	2462.9	2459.9	2427.5	2361.3	2282.8	2123.4	1797.0	1375.1	549.7	16.2	0.0
33°	2490.7	2484.5	2447.5	2379.0	2305.9	2112.6	1724.6	1271.1	488.1	13.1	0.0
34°	2486.8	2485.3	2446.8	2375.9	2301.3	2068.0	1640.7	1155.6	431.1	10.8	0.0
35°	2465.2	2465.2	2418.3	2345.1	2268.2	2002.5	1557.5	1057.1	377.3	7.7	0.0
36°	2449.1	2442.9	2389.8	2308.2	2212.7	1899.4	1434.3	957.8	319.5	6.2	0.0
37°	2425.2	2413.7	2354.4	2266.6	2134.2	1787.7	1305.0	869.2	270.2	3.8	0.0
38°	2394.4	2376.7	2304.3	2218.1	2048.0	1659.2	1173.3	769.9	224.8	2.3	0.0
39°	2338.2	2323.6	2248.9	2155.7	1944.8	1523.6	1045.5	676.7	181.7	0.8	0.0
40°	2288.2	2262.8	2178.1	2071.1	1823.9	1370.4	918.5	585.1	143.2	0.0	0.0
42.5°	1929.4	1902.4	1883.2	1776.9	1452.8	983.9	641.3	374.9	74.7	0.0	0.0
45°	1308.1	1314.2	1254.2	1182.6	958.5	641.3	401.1	208.6	38.5	0.0	0.0
47.5°	953.9	937.7	856.1	720.6	562.0	374.9	209.4	100.9	15.4	0.0	0.0
50°	662.1	631.3	557.4	455.8	305.7	178.6	92.4	47.0	0.8	0.0	0.0
52.5°	359.5	338.0	286.4	207.9	127.0	68.5	37.0	19.2	0.0	0.0	0.0
55°	57.7	40.0	41.6	35.4	27.7	20.0	11.5	2.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5
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):

	112.5°	135°	157.5°	180°
0°	97.8	97.8	97.8	97.8
2.5°	65.4	44.7	33.9	29.3
5°	37.7	15.4	8.5	7.7
7.5°	18.5	5.4	3.1	3.1
10°	7.7	1.5	0.0	0.0
12.5°	2.3	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0
70°	0.8	0.0	0.0	0.0
72.5°	0.8	0.0	0.0	0.0
75°	0.8	0.0	0.0	0.0
77.5°	0.8	0.0	0.0	0.0
80°	0.8	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.8	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)