

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: P1312419

Luminaire Tested: LDSQA3D09R409050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R409050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

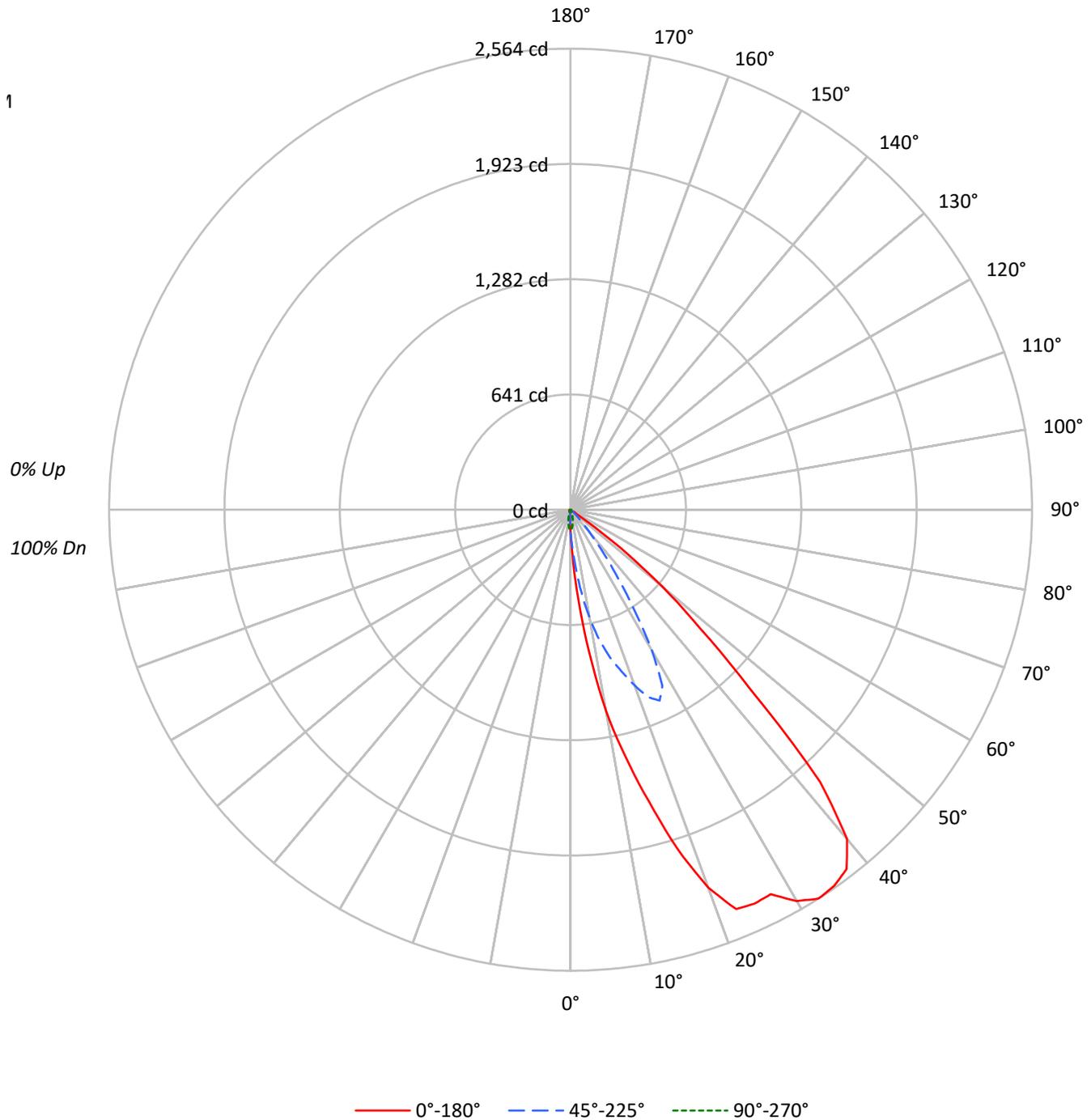
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 946.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49	49	49	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19272	19272	19272	19272	19272
5°	86942	55425	17271	6639	4841
10°	199380	107096	12172	2378	1819
15°	299220	151963	7560	1284	1141
20°	409712	190497	4399	733	880
25°	459294	222578	2280	608	760
30°	499590	179675	955	477	795
35°	536903	91940	336	673	1009
40°	537097	36668	180	719	1259
45°	342932	12275	390	1169	1754
50°	178013	1500	643	1500	2143
55°	15373	240	721	1922	2642
60°	551	276	827	2204	3031
65°	652	326	1304	2282	3260
70°	403	403	1611	2417	3223
75°	532	532	1597	2662	3726
80°	793	793	2380	2380	3174
85°	0	1581	4742	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 342932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	2.3
10°-20°	128.0	13.5
20°-30°	280.4	29.6
30°-40°	319.5	33.8
40°-50°	168.6	17.8
50°-60°	19.9	2.1
60°-70°	3.6	0.4
70°-80°	2.9	0.3
80°-90°	1.3	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°	430.3	45.5
0°-40°	749.7	79.3
0°-60°	938.2	99.2
0°-90°	946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	946.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	112	112	112	112	112	
5°	503	321	100	38	28	68
15°	1678	852	42	7	6	494
25°	2417	1171	12	3	4	1114
35°	2554	437	2	3	5	1583
45°	1408	50	2	5	7	1135
55°	51	1	2	6	9	159
65°	2	1	3	6	8	1
75°	1	1	2	4	6	1
85°	0	1	2	2	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9
2.5°	249.5	249.5	248.7	241.5	240.7	239.9	227.1	223.9	208.7	198.3	151.1
5°	502.9	491.7	490.9	478.1	456.5	427.8	409.4	379.8	351.0	320.6	186.3
7.5°	801.1	810.7	784.4	770.8	722.8	688.4	635.6	589.3	524.5	463.7	215.1
10°	1140.1	1123.4	1097.0	1070.6	1018.6	957.1	878.7	796.3	702.8	612.4	231.1
12.5°	1404.8	1383.2	1367.2	1331.2	1280.1	1200.9	1107.4	997.0	873.1	742.8	230.3
15°	1678.2	1656.7	1620.7	1588.7	1512.7	1424.0	1322.4	1176.9	1025.0	852.3	213.5
17.5°	1978.9	1950.9	1910.9	1862.1	1788.6	1690.2	1561.5	1384.0	1168.9	941.9	183.1
20°	2235.5	2218.7	2178.8	2121.2	2049.2	1953.3	1804.6	1607.9	1345.6	1039.4	145.5
22.5°	2403.4	2388.2	2361.0	2310.7	2256.3	2154.0	2018.0	1802.2	1493.5	1128.2	110.3
25°	2417.0	2410.6	2403.4	2386.6	2353.9	2281.1	2148.4	1915.7	1585.5	1171.3	81.6
27.5°	2409.8	2407.4	2405.8	2397.0	2375.4	2303.5	2167.6	1932.5	1573.5	1104.2	60.0
30°	2512.2	2505.0	2501.0	2472.2	2415.4	2304.3	2126.8	1842.1	1398.4	903.5	43.2
32.5°	2564.1	2562.5	2558.5	2530.6	2450.6	2305.9	2058.0	1623.9	1109.0	652.4	29.6
35°	2553.7	2545.7	2531.4	2479.4	2368.2	2186.7	1835.7	1296.9	800.3	437.3	19.2
37.5°	2518.6	2500.2	2472.2	2378.6	2230.7	1982.9	1488.7	954.7	544.5	283.0	11.2
40°	2389.0	2364.2	2320.3	2205.9	2011.6	1634.3	1101.0	645.2	357.4	163.1	3.2
42.5°	2054.0	2022.0	1990.1	1862.1	1639.9	1218.5	724.4	399.0	203.9	89.5	0.8
45°	1408.0	1368.0	1324.0	1231.3	1053.0	738.0	431.0	224.7	105.5	50.4	0.8
47.5°	977.8	959.5	882.7	764.4	586.1	391.0	223.1	110.3	56.0	23.2	0.8
50°	664.4	643.6	554.1	439.7	311.8	187.1	102.3	55.2	24.8	5.6	0.8
52.5°	348.6	323.0	266.2	203.1	126.3	78.4	44.8	24.0	7.2	0.8	0.8
55°	51.2	47.2	38.4	31.2	28.0	21.6	12.8	5.6	0.8	0.8	1.6
57.5°	1.6	1.6	1.6	1.6	2.4	2.4	1.6	0.8	0.8	0.8	1.6
60°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6
65°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6
67.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6	2.4
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6
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):

	90°	112.5°	135°	157.5°	180°
0°	111.9	111.9	111.9	111.9	111.9
2.5°	110.3	81.6	63.2	54.4	53.6
5°	99.9	58.4	38.4	29.6	28.0
7.5°	84.8	40.8	22.4	16.0	15.2
10°	69.6	28.0	13.6	11.2	10.4
12.5°	55.2	18.4	9.6	8.8	8.0
15°	42.4	12.0	7.2	6.4	6.4
17.5°	32.0	8.0	5.6	5.6	5.6
20°	24.0	5.6	4.0	4.8	4.8
22.5°	16.8	4.0	3.2	4.0	4.0
25°	12.0	3.2	3.2	4.0	4.0
27.5°	8.0	2.4	2.4	3.2	4.0
30°	4.8	1.6	2.4	3.2	4.0
32.5°	2.4	1.6	2.4	4.0	4.0
35°	1.6	2.4	3.2	4.0	4.8
37.5°	0.8	2.4	3.2	4.8	4.8
40°	0.8	2.4	3.2	4.8	5.6
42.5°	1.6	3.2	4.0	5.6	6.4
45°	1.6	3.2	4.8	6.4	7.2
47.5°	1.6	3.2	5.6	7.2	7.2
50°	2.4	4.0	5.6	7.2	8.0
52.5°	2.4	4.0	5.6	8.0	8.8
55°	2.4	4.0	6.4	8.0	8.8
57.5°	2.4	4.8	6.4	8.0	8.8
60°	2.4	4.0	6.4	8.0	8.8
62.5°	3.2	4.0	5.6	8.0	8.0
65°	3.2	4.0	5.6	8.0	8.0
67.5°	3.2	4.0	5.6	7.2	7.2
70°	3.2	4.0	4.8	6.4	6.4
72.5°	3.2	4.0	4.8	5.6	6.4
75°	2.4	3.2	4.0	4.8	5.6
77.5°	2.4	3.2	3.2	4.8	4.8
80°	2.4	2.4	2.4	3.2	3.2
82.5°	2.4	2.4	1.6	2.4	2.4
85°	2.4	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)