

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: P1308163

Luminaire Tested: LDSQA3D13R459027DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459027DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

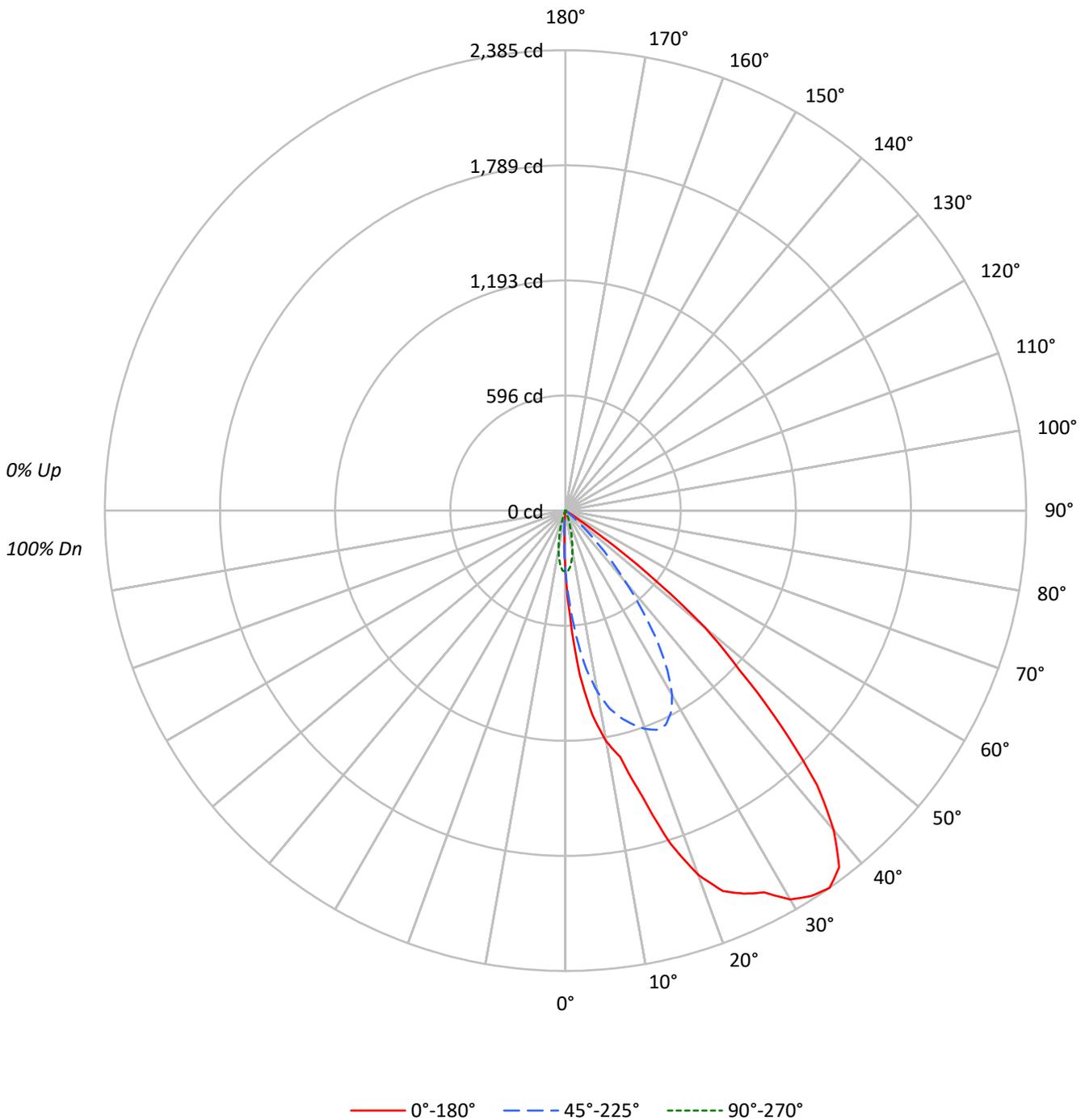
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1011.0 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	70	65	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	54078	54078	54078	54078	54078
5°	147623	113582	50049	10044	3769
10°	212024	166643	36183	944	787
15°	272956	198214	19256	321	0
20°	367907	220535	7313	0	0
25°	416120	232973	1900	0	0
30°	462541	219627	179	0	0
35°	501413	175155	0	0	0
40°	485972	109960	0	0	0
45°	385238	52390	0	0	0
50°	252150	6564	0	0	0
55°	43328	0	0	0	0
60°	0	0	310	0	0
65°	0	367	367	0	0
70°	0	453	906	0	0
75°	0	599	1198	0	0
80°	0	893	1785	893	0
85°	0	1778	3557	1778	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 385238 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.4	3.7
10°-20°	144.0	14.2
20°-30°	269.6	26.7
30°-40°	314.7	31.1
40°-50°	205.2	20.3
50°-60°	38.1	3.8
60°-70°	0.4	0.0
70°-80°	0.7	0.1
80°-90°	0.8	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°	451.0	44.6
0°-40°	765.7	75.7
0°-60°	1009.1	99.8
0°-90°	1011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	314	314	314	314	314	
5°	854	657	290	58	22	91
15°	1531	1112	108	2	0	456
25°	2190	1226	10	0	0	1013
35°	2385	833	0	0	0	1463
45°	1582	215	0	0	0	1203
55°	144	0	0	0	0	251
65°	0	1	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	1	0	0
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°	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0
2.5°	553.6	558.1	549.0	545.4	533.6	536.3	516.4	508.2	495.5	474.6	464.6
5°	853.9	845.8	838.5	823.1	814.0	789.5	762.3	731.4	694.2	657.0	614.4
7.5°	1068.1	1061.8	1059.0	1046.3	1028.2	1002.8	967.4	928.4	880.3	830.3	765.9
10°	1212.4	1206.0	1195.2	1182.5	1167.9	1147.1	1112.6	1069.9	1017.3	952.9	877.5
12.5°	1306.8	1305.9	1287.7	1273.2	1255.1	1236.9	1201.5	1167.0	1115.3	1049.1	963.7
15°	1530.9	1516.4	1492.8	1452.0	1401.2	1354.0	1296.8	1242.3	1186.1	1111.7	1016.4
17.5°	1810.4	1794.1	1754.2	1702.4	1620.8	1530.9	1432.9	1346.7	1262.3	1161.6	1049.1
20°	2007.4	2001.0	1967.4	1907.5	1820.4	1701.5	1572.7	1451.1	1332.2	1203.3	1064.5
22.5°	2133.5	2129.9	2116.3	2075.4	1986.5	1853.1	1687.0	1523.7	1380.3	1229.6	1059.9
25°	2189.8	2194.3	2196.1	2176.1	2104.5	1968.3	1771.4	1579.0	1407.5	1226.0	1025.5
27.5°	2229.7	2229.7	2237.0	2227.9	2155.3	2011.9	1804.1	1598.1	1398.4	1181.5	952.9
30°	2325.9	2324.1	2328.6	2304.1	2203.4	2025.5	1789.6	1567.2	1346.7	1104.4	848.5
32.5°	2367.6	2369.4	2368.5	2329.5	2212.4	2016.4	1754.2	1508.2	1251.4	983.7	710.6
35°	2384.9	2376.7	2343.1	2254.2	2106.3	1895.7	1654.3	1408.4	1118.0	833.1	560.8
37.5°	2327.7	2304.1	2229.7	2108.1	1927.5	1725.1	1489.2	1229.6	941.1	653.4	422.0
40°	2161.6	2130.8	2037.3	1890.3	1725.1	1542.7	1294.1	1020.0	736.0	489.1	295.8
42.5°	1926.6	1891.2	1790.5	1662.5	1511.9	1320.4	1072.6	798.6	539.0	337.6	187.8
45°	1581.7	1561.8	1503.7	1395.7	1247.8	1049.1	822.2	582.6	373.0	215.1	96.2
47.5°	1223.3	1197.9	1156.1	1081.7	958.3	769.5	575.3	395.7	239.6	106.2	20.0
50°	941.1	911.1	860.3	777.7	648.9	513.6	373.0	246.8	121.6	24.5	0.9
52.5°	541.8	548.1	523.6	471.0	399.3	307.6	216.0	124.3	27.2	0.9	0.0
55°	144.3	156.1	152.5	164.3	144.3	121.6	89.8	23.6	1.8	0.0	0.0
57.5°	0.0	0.0	0.9	1.8	5.4	8.2	2.7	0.9	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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°	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0
2.5°	441.9	422.9	399.3	312.2	235.0	168.8	131.6	121.6
5°	573.5	527.2	467.4	289.5	145.2	58.1	26.3	21.8
7.5°	697.9	629.8	521.8	253.2	73.5	14.5	7.3	6.4
10°	794.0	702.4	561.7	206.9	27.2	5.4	4.5	4.5
12.5°	860.3	748.7	576.3	157.0	10.0	2.7	2.7	1.8
15°	898.4	766.8	562.6	108.0	3.6	1.8	0.0	0.0
17.5°	910.2	759.6	526.3	68.1	0.9	0.0	0.0	0.0
20°	900.2	724.2	469.2	39.9	0.0	0.0	0.0	0.0
22.5°	867.6	668.8	400.2	21.8	0.0	0.0	0.0	0.0
25°	806.8	590.8	319.4	10.0	0.0	0.0	0.0	0.0
27.5°	707.8	490.0	240.5	3.6	0.0	0.0	0.0	0.0
30°	595.3	382.1	170.6	0.9	0.0	0.0	0.0	0.0
32.5°	464.6	281.3	109.8	0.0	0.0	0.0	0.0	0.0
35°	349.4	196.9	65.3	0.0	0.0	0.0	0.0	0.0
37.5°	243.2	124.3	34.5	0.0	0.0	0.0	0.0	0.0
40°	151.5	67.2	11.8	0.0	0.0	0.0	0.0	0.0
42.5°	84.4	23.6	0.9	0.0	0.0	0.0	0.0	0.0
45°	20.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0
62.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
65°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
67.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
70°	0.9	0.9	0.9	1.8	0.9	0.0	0.0	0.0
72.5°	0.9	0.9	1.8	1.8	0.9	0.0	0.0	0.0
75°	0.9	0.9	1.8	1.8	0.9	0.0	0.0	0.0
77.5°	0.9	1.8	1.8	1.8	0.9	0.9	0.0	0.0
80°	0.9	1.8	1.8	1.8	1.8	0.9	0.0	0.0
82.5°	0.9	1.8	1.8	1.8	1.8	0.9	0.0	0.0
85°	0.9	1.8	1.8	1.8	0.9	0.9	0.0	0.0
87.5°	0.9	1.8	1.8	1.8	1.8	0.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)