

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: P1309283

Luminaire Tested: LDSQA3D13R459030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R459030DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

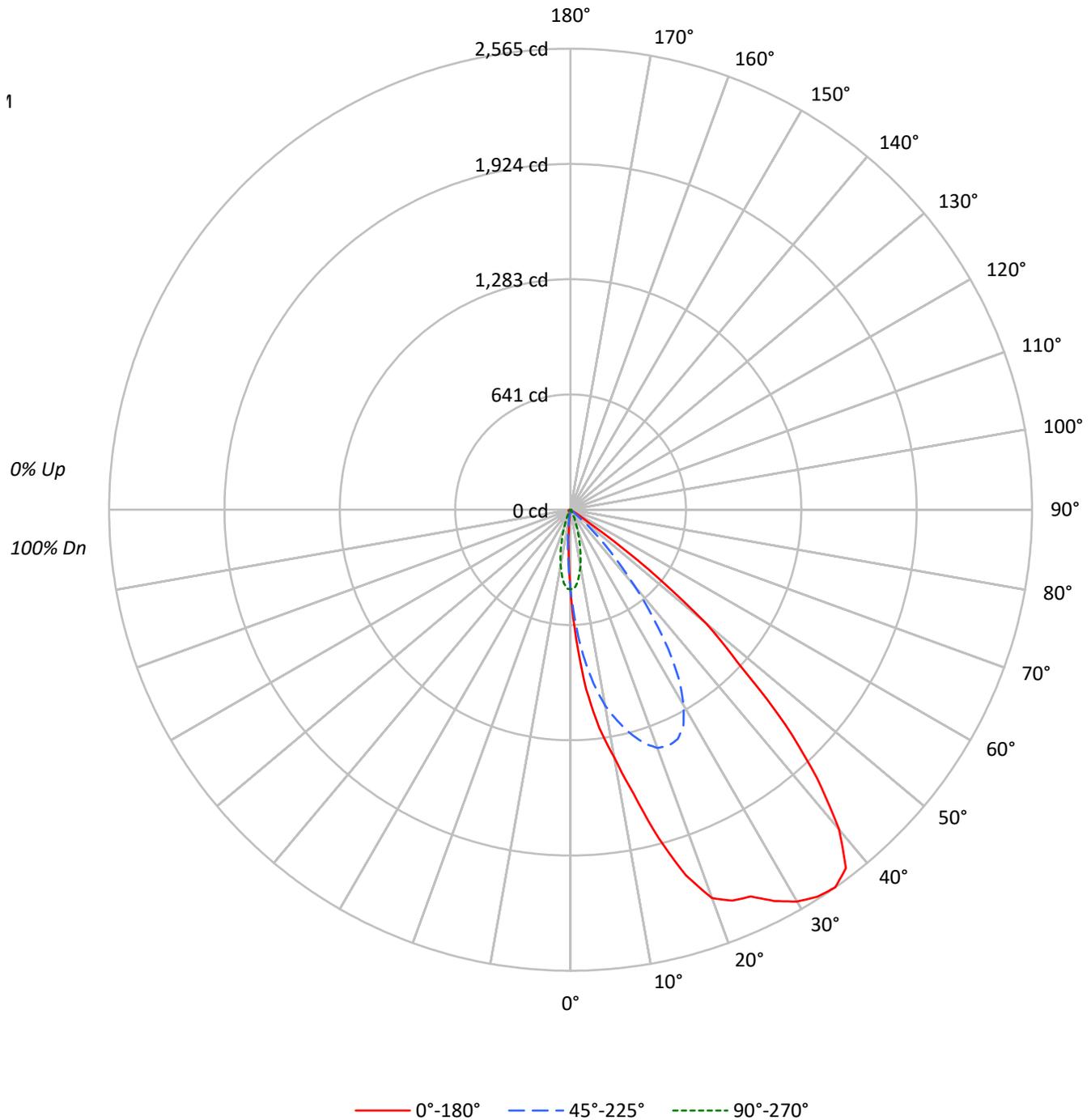
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1162.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
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_{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
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	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	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	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	76157	76157	76157	76157	76157
5°	173555	140794	71227	28560	19484
10°	244551	193399	55070	6296	2886
15°	337001	230094	35178	2086	1729
20°	421405	258437	18346	1430	1430
25°	450952	267577	8494	1102	1292
30°	500525	249875	3858	1153	1352
35°	539194	199207	1219	1219	1640
40°	521719	123449	652	1529	1956
45°	409716	58235	706	1900	2363
50°	263242	6779	1045	2331	3135
55°	39965	570	1171	2913	3783
60°	654	654	1343	3341	4030
65°	774	774	1589	3545	4768
70°	957	957	1964	3928	5388
75°	665	1264	2595	4525	5789
80°	992	1884	2876	4860	6744
85°	0	1976	3754	5730	5730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 409716 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	4.2
10°-20°	175.0	15.1
20°-30°	307.4	26.5
30°-40°	349.0	30.0
40°-50°	226.0	19.4
50°-60°	44.4	3.8
60°-70°	5.4	0.5
70°-80°	4.5	0.4
80°-90°	2.0	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°	530.7	45.7
0°-40°	879.7	75.7
0°-60°	1150.1	99.0
0°-90°	1162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	442	442	442	442	442	
5°	1004	814	412	165	113	107
15°	1890	1290	197	12	10	545
25°	2373	1408	45	6	7	1112
35°	2565	948	6	6	8	1577
45°	1682	239	3	8	10	1268
55°	133	2	4	10	13	254
65°	2	2	4	9	12	2
75°	1	2	4	7	9	1
85°	0	1	2	3	3	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°	442.2	442.2	442.2	442.2	442.2	442.2	442.2	442.2	442.2	442.2	442.2
2.5°	718.2	716.2	719.1	699.7	698.7	684.1	680.3	663.7	641.4	630.7	605.4
5°	1003.9	994.1	994.1	970.8	963.0	946.5	918.3	883.4	854.2	814.4	771.6
7.5°	1224.5	1222.5	1222.5	1202.1	1182.7	1159.3	1121.4	1081.6	1035.0	973.7	911.5
10°	1398.4	1401.3	1392.6	1374.1	1345.9	1320.7	1276.0	1227.4	1170.0	1105.9	1023.3
12.5°	1618.0	1596.7	1589.8	1548.1	1512.1	1463.5	1410.1	1354.7	1283.7	1203.1	1109.8
15°	1890.1	1862.9	1835.7	1780.3	1720.1	1645.2	1561.7	1480.0	1388.7	1290.5	1173.9
17.5°	2133.1	2133.1	2097.1	2009.7	1931.9	1821.1	1708.4	1599.6	1491.7	1362.4	1216.7
20°	2299.3	2290.5	2263.3	2199.2	2110.7	1985.4	1838.6	1686.1	1555.8	1410.1	1241.0
22.5°	2353.7	2351.7	2352.7	2314.8	2243.9	2113.6	1933.9	1754.1	1590.8	1421.7	1229.3
25°	2373.1	2377.0	2386.7	2372.1	2318.7	2188.5	1992.2	1786.1	1601.5	1408.1	1184.6
27.5°	2453.8	2446.0	2456.7	2447.0	2386.7	2231.2	2003.8	1778.4	1578.2	1358.6	1104.9
30°	2516.9	2515.0	2533.5	2524.7	2446.0	2258.4	1993.1	1749.2	1520.9	1256.5	979.6
32.5°	2552.9	2553.9	2558.7	2522.8	2406.2	2199.2	1940.7	1689.9	1413.0	1123.4	816.3
35°	2564.6	2558.7	2531.5	2443.1	2283.7	2062.1	1811.4	1549.0	1266.2	947.5	645.3
37.5°	2514.0	2483.9	2413.9	2281.8	2097.1	1890.1	1646.2	1371.2	1065.1	748.3	481.0
40°	2320.6	2280.8	2192.4	2057.3	1885.3	1685.1	1435.3	1147.7	826.0	549.1	338.2
42.5°	2031.0	2010.6	1918.3	1800.7	1655.0	1452.8	1195.3	903.8	611.3	379.0	215.7
45°	1682.2	1655.9	1597.6	1493.6	1379.0	1167.1	927.1	647.2	416.9	239.1	106.9
47.5°	1261.4	1263.3	1223.5	1144.8	1032.0	855.2	634.6	434.4	261.4	123.4	24.3
50°	982.5	968.9	912.5	831.9	700.7	569.5	410.1	274.0	138.0	25.3	1.9
52.5°	544.2	552.9	522.8	496.6	428.6	340.1	242.0	139.0	29.2	2.9	1.9
55°	133.1	140.9	135.1	138.0	142.9	127.3	98.2	27.2	2.9	1.9	1.9
57.5°	2.9	2.9	2.9	2.9	4.9	6.8	6.8	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	1.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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°	442.2	442.2	442.2	442.2	442.2	442.2	442.2	442.2
2.5°	592.8	574.3	540.3	439.2	352.8	284.7	243.9	240.0
5°	733.7	684.1	612.2	412.0	260.4	165.2	119.5	112.7
7.5°	845.5	775.5	664.7	367.3	177.8	84.5	46.6	38.9
10°	937.8	838.7	691.9	314.9	111.8	36.0	19.4	16.5
12.5°	1000.9	881.4	696.8	256.6	64.1	17.5	12.6	11.7
15°	1041.8	895.0	673.5	197.3	36.0	11.7	10.7	9.7
17.5°	1058.3	883.4	628.7	142.9	19.4	8.7	8.7	8.7
20°	1050.5	845.5	562.7	100.1	12.6	7.8	7.8	7.8
22.5°	1013.6	780.3	480.1	67.1	8.7	6.8	6.8	6.8
25°	940.7	691.9	392.6	44.7	5.8	5.8	6.8	6.8
27.5°	831.9	583.1	300.3	30.1	4.9	5.8	6.8	6.8
30°	694.8	461.6	215.7	19.4	4.9	5.8	5.8	6.8
32.5°	552.0	336.2	141.9	11.7	3.9	5.8	6.8	7.8
35°	400.4	229.3	90.4	5.8	4.9	5.8	6.8	7.8
37.5°	280.8	149.7	52.5	3.9	4.9	5.8	7.8	7.8
40°	182.7	83.6	19.4	2.9	4.9	6.8	7.8	8.7
42.5°	95.2	29.2	3.9	2.9	4.9	6.8	8.7	9.7
45°	24.3	3.9	1.0	2.9	5.8	7.8	9.7	9.7
47.5°	2.9	1.0	1.0	3.9	5.8	8.7	9.7	10.7
50°	1.0	1.9	1.9	3.9	5.8	8.7	10.7	11.7
52.5°	1.9	1.9	1.9	3.9	6.8	8.7	11.7	12.6
55°	1.9	1.9	1.9	3.9	6.8	9.7	11.7	12.6
57.5°	1.9	1.9	1.9	3.9	6.8	9.7	11.7	11.7
60°	1.9	1.9	1.9	3.9	6.8	9.7	11.7	11.7
62.5°	1.9	1.9	2.9	3.9	6.8	8.7	11.7	11.7
65°	1.9	2.9	2.9	3.9	6.8	8.7	10.7	11.7
67.5°	1.9	1.9	2.9	3.9	6.8	8.7	10.7	11.7
70°	1.9	1.9	2.9	3.9	5.8	7.8	9.7	10.7
72.5°	1.9	1.9	2.9	3.9	5.8	7.8	8.7	9.7
75°	1.9	1.9	2.9	3.9	4.9	6.8	8.7	8.7
77.5°	1.9	1.9	2.9	2.9	4.9	5.8	7.8	7.8
80°	1.9	1.9	2.9	2.9	3.9	4.9	5.8	6.8
82.5°	1.9	1.9	1.9	2.9	2.9	3.9	4.9	4.9
85°	1.9	1.9	1.9	1.9	1.9	2.9	2.9	2.9
87.5°	1.0	1.9	1.9	1.9	1.9	1.9	1.9	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)