

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: P1314686

Luminaire Tested: LDSQA3D13R459730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314686
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: LDSQA3D13R459730DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

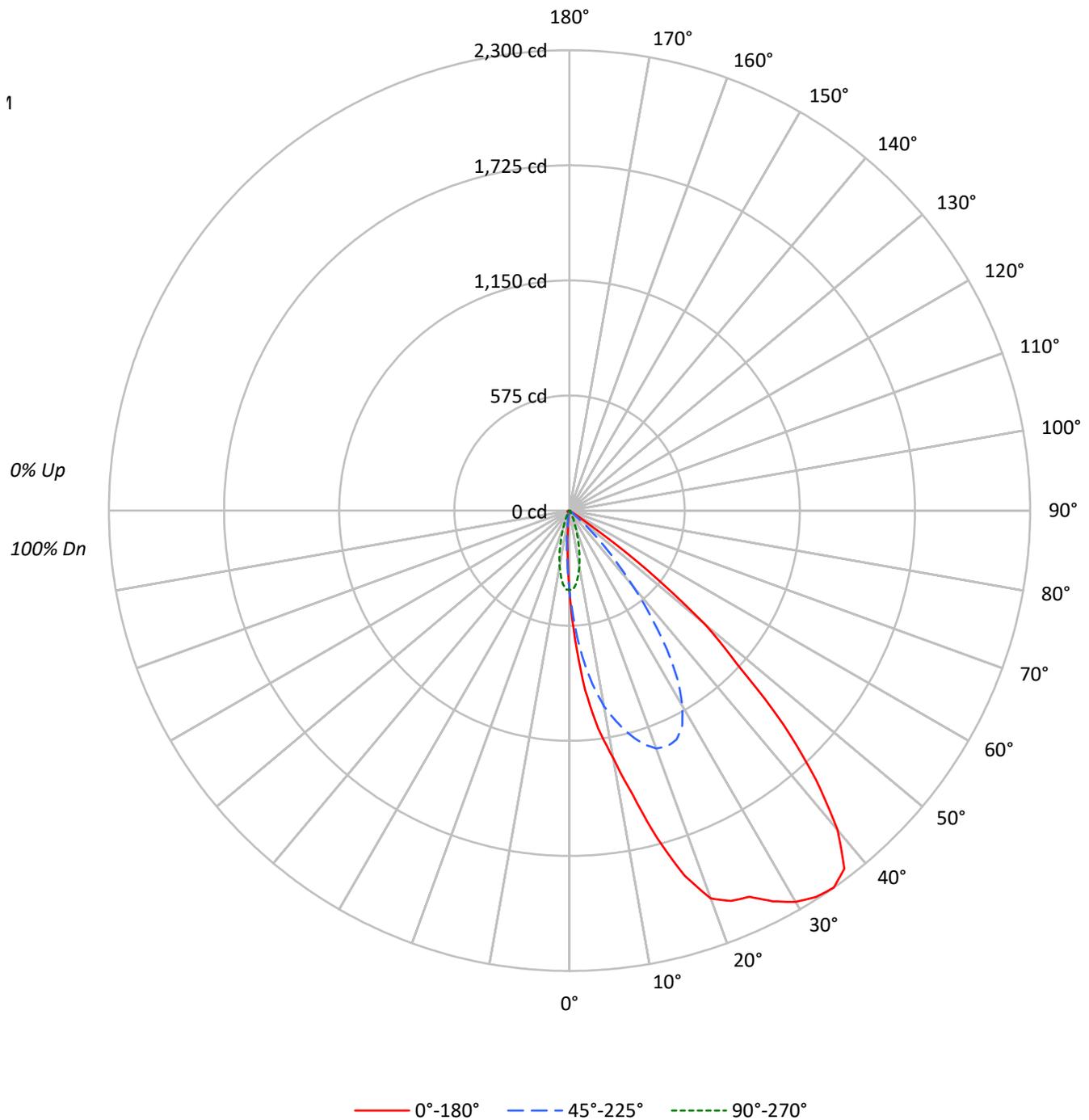
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1042.0 lumens
Efficiency: N/A
Efficacy: 71.4 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 (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			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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	68286	68286	68286	68286	68286
5°	155627	126255	63879	25604	17478
10°	219299	173428	49368	5631	2588
15°	302197	206344	31541	1872	1551
20°	377877	231734	16458	1283	1283
25°	404377	239947	7620	988	1159
30°	448840	224082	3460	1034	1213
35°	483500	178624	1093	1093	1472
40°	467852	110702	585	1371	1754
45°	367385	52219	633	1705	2119
50°	236047	6082	938	2090	2813
55°	35851	510	1051	2612	3393
60°	586	586	1206	2997	3617
65°	693	693	1426	3179	4279
70°	856	856	1762	3525	4834
75°	599	1131	2329	4059	5190
80°	893	1686	2579	4364	6050
85°	0	1778	3359	5138	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 367385 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	4.2
10°-20°	156.9	15.1
20°-30°	275.6	26.5
30°-40°	313.0	30.0
40°-50°	202.7	19.4
50°-60°	39.8	3.8
60°-70°	4.8	0.5
70°-80°	4.0	0.4
80°-90°	1.8	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°	475.9	45.7
0°-40°	788.9	75.7
0°-60°	1031.3	99.0
0°-90°	1042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	396	396	396	396	396	
5°	900	730	370	148	101	96
15°	1695	1157	177	10	9	488
25°	2128	1263	40	5	6	998
35°	2300	850	5	5	7	1414
45°	1508	214	3	7	9	1137
55°	119	2	4	9	11	228
65°	2	2	4	8	10	2
75°	1	2	4	6	8	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°	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5
2.5°	644.0	642.2	644.9	627.4	626.6	613.5	610.0	595.2	575.1	565.6	542.9
5°	900.2	891.5	891.5	870.6	863.6	848.8	823.5	792.1	766.0	730.3	691.9
7.5°	1098.0	1096.3	1096.3	1078.0	1060.5	1039.6	1005.6	969.9	928.1	873.2	817.4
10°	1254.0	1256.6	1248.8	1232.2	1206.9	1184.3	1144.2	1100.6	1049.2	991.7	917.6
12.5°	1450.9	1431.8	1425.7	1388.2	1355.9	1312.4	1264.4	1214.8	1151.2	1078.8	995.2
15°	1694.9	1670.5	1646.1	1596.5	1542.4	1475.3	1400.4	1327.2	1245.3	1157.3	1052.7
17.5°	1912.8	1912.8	1880.6	1802.1	1732.4	1633.1	1532.0	1434.4	1337.6	1221.7	1091.0
20°	2061.8	2054.0	2029.6	1972.1	1892.8	1780.3	1648.8	1511.9	1395.2	1264.4	1112.8
22.5°	2110.6	2108.9	2109.7	2075.8	2012.1	1895.4	1734.2	1572.9	1426.5	1274.9	1102.4
25°	2128.0	2131.5	2140.2	2127.2	2079.2	1962.5	1786.4	1601.7	1436.1	1262.7	1062.3
27.5°	2200.4	2193.4	2203.0	2194.3	2140.2	2000.8	1796.9	1594.7	1415.2	1218.3	990.8
30°	2257.0	2255.3	2271.8	2264.0	2193.4	2025.2	1787.3	1568.6	1363.8	1126.8	878.4
32.5°	2289.3	2290.1	2294.5	2262.2	2157.7	1972.1	1740.3	1515.4	1267.1	1007.4	732.0
35°	2299.7	2294.5	2270.1	2190.8	2047.9	1849.2	1624.4	1389.1	1135.5	849.6	578.6
37.5°	2254.4	2227.4	2164.6	2046.1	1880.6	1694.9	1476.2	1229.6	955.1	671.0	431.4
40°	2081.0	2045.3	1966.0	1844.8	1690.6	1511.1	1287.1	1029.2	740.7	492.4	303.3
42.5°	1821.3	1803.0	1720.2	1614.8	1484.0	1302.8	1071.9	810.4	548.1	339.9	193.5
45°	1508.4	1484.9	1432.6	1339.4	1236.6	1046.6	831.3	580.4	373.8	214.4	95.9
47.5°	1131.1	1132.9	1097.1	1026.5	925.5	766.9	569.0	389.5	234.4	110.7	21.8
50°	881.0	868.8	818.3	745.9	628.3	510.7	367.7	245.7	123.7	22.7	1.7
52.5°	488.0	495.8	468.8	445.3	384.3	305.0	217.0	124.6	26.1	2.6	1.7
55°	119.4	126.4	121.1	123.7	128.1	114.2	88.0	24.4	2.6	1.7	1.7
57.5°	2.6	2.6	2.6	2.6	4.4	6.1	6.1	1.7	1.7	1.7	1.7
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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°	396.5	396.5	396.5	396.5	396.5	396.5	396.5	396.5
2.5°	531.6	515.0	484.5	393.9	316.3	255.3	218.7	215.2
5°	657.9	613.5	549.0	369.5	233.5	148.1	107.2	101.1
7.5°	758.1	695.4	596.1	329.4	159.5	75.8	41.8	34.9
10°	840.9	752.0	620.5	282.3	100.2	32.2	17.4	14.8
12.5°	897.6	790.4	624.8	230.1	57.5	15.7	11.3	10.5
15°	934.2	802.6	603.9	176.9	32.2	10.5	9.6	8.7
17.5°	949.0	792.1	563.8	128.1	17.4	7.8	7.8	7.8
20°	942.0	758.1	504.6	89.8	11.3	7.0	7.0	7.0
22.5°	908.9	699.8	430.5	60.1	7.8	6.1	6.1	6.1
25°	843.5	620.5	352.1	40.1	5.2	5.2	6.1	6.1
27.5°	745.9	522.9	269.3	27.0	4.4	5.2	6.1	6.1
30°	623.1	413.9	193.5	17.4	4.4	5.2	5.2	6.1
32.5°	495.0	301.5	127.2	10.5	3.5	5.2	6.1	7.0
35°	359.0	205.7	81.0	5.2	4.4	5.2	6.1	7.0
37.5°	251.8	134.2	47.1	3.5	4.4	5.2	7.0	7.0
40°	163.8	74.9	17.4	2.6	4.4	6.1	7.0	7.8
42.5°	85.4	26.1	3.5	2.6	4.4	6.1	7.8	8.7
45°	21.8	3.5	0.9	2.6	5.2	7.0	8.7	8.7
47.5°	2.6	0.9	0.9	3.5	5.2	7.8	8.7	9.6
50°	0.9	1.7	1.7	3.5	5.2	7.8	9.6	10.5
52.5°	1.7	1.7	1.7	3.5	6.1	7.8	10.5	11.3
55°	1.7	1.7	1.7	3.5	6.1	8.7	10.5	11.3
57.5°	1.7	1.7	1.7	3.5	6.1	8.7	10.5	10.5
60°	1.7	1.7	1.7	3.5	6.1	8.7	10.5	10.5
62.5°	1.7	1.7	2.6	3.5	6.1	7.8	10.5	10.5
65°	1.7	2.6	2.6	3.5	6.1	7.8	9.6	10.5
67.5°	1.7	1.7	2.6	3.5	6.1	7.8	9.6	10.5
70°	1.7	1.7	2.6	3.5	5.2	7.0	8.7	9.6
72.5°	1.7	1.7	2.6	3.5	5.2	7.0	7.8	8.7
75°	1.7	1.7	2.6	3.5	4.4	6.1	7.8	7.8
77.5°	1.7	1.7	2.6	2.6	4.4	5.2	7.0	7.0
80°	1.7	1.7	2.6	2.6	3.5	4.4	5.2	6.1
82.5°	1.7	1.7	1.7	2.6	2.6	3.5	4.4	4.4
85°	1.7	1.7	1.7	1.7	1.7	2.6	2.6	2.6
87.5°	0.9	1.7	1.7	1.7	1.7	1.7	1.7	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)