

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: P1319999

Luminaire Tested: LDSQA3D09R459840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319999
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: LDSQA3D09R459840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

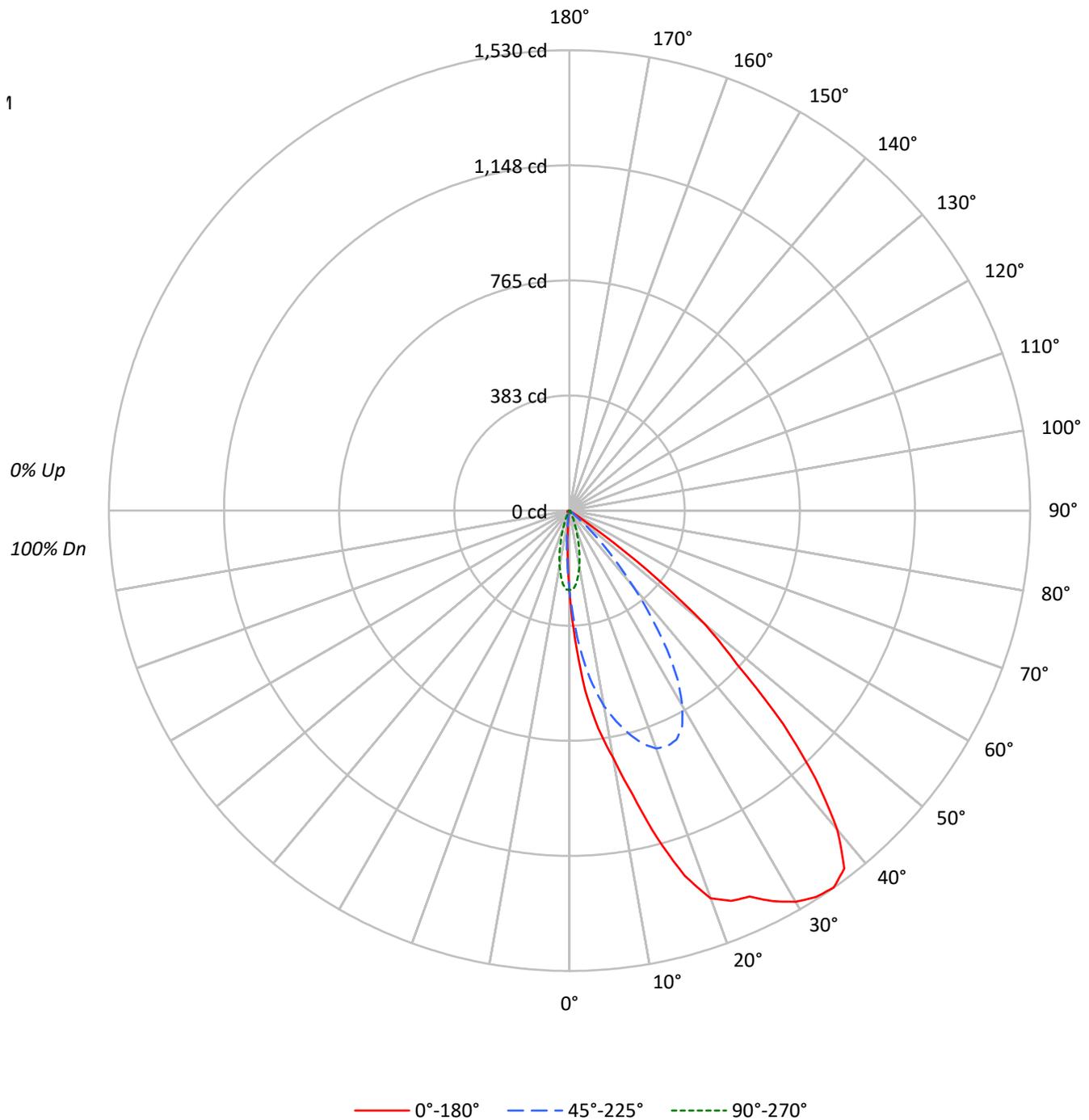
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 693.1 lumens
Efficiency: N/A
Efficacy: 63.0 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): 11
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°	45415	45415	45415	45415	45415
5°	103504	83968	42477	17029	11618
10°	145849	115333	32842	3742	1731
15°	200978	137236	20986	1248	1034
20°	251307	154116	10942	843	843
25°	268945	159584	5074	665	779
30°	298517	149030	2307	696	815
35°	321570	118809	736	736	967
40°	311152	73629	382	922	1169
45°	244339	34732	414	1120	1413
50°	156981	4046	616	1393	1876
55°	23841	360	691	1742	2252
60°	413	413	792	1998	2411
65°	489	489	937	2119	2853
70°	604	604	1158	2316	3223
75°	399	799	1530	2728	3460
80°	595	1190	1686	2876	4066
85°	0	1186	2371	3359	3359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 244339 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	4.2
10°-20°	104.3	15.1
20°-30°	183.3	26.5
30°-40°	208.2	30.0
40°-50°	134.8	19.4
50°-60°	26.5	3.8
60°-70°	3.2	0.5
70°-80°	2.7	0.4
80°-90°	1.2	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°	316.5	45.7
0°-40°	524.7	75.7
0°-60°	685.9	99.0
0°-90°	693.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	264	264	264	264	264	
5°	599	486	246	98	67	64
15°	1127	770	118	7	6	325
25°	1415	840	27	4	4	663
35°	1530	565	4	4	5	940
45°	1003	143	2	5	6	756
55°	79	1	2	6	8	152
65°	1	1	2	5	7	1
75°	1	1	2	4	5	1
85°	0	1	1	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°	50°
0°	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7
2.5°	428.3	427.1	428.9	417.3	416.7	408.0	405.7	395.8	382.5	376.1	361.1
5°	598.7	592.9	592.9	579.0	574.3	564.5	547.7	526.8	509.4	485.7	460.2
7.5°	730.2	729.1	729.1	716.9	705.3	691.4	668.8	645.1	617.2	580.7	543.6
10°	834.0	835.7	830.5	819.5	802.7	787.6	761.0	732.0	697.8	659.5	610.3
12.5°	965.0	952.2	948.2	923.2	901.8	872.8	840.9	807.9	765.6	717.5	661.9
15°	1127.2	1111.0	1094.8	1061.8	1025.8	981.2	931.4	882.7	828.2	769.7	700.1
17.5°	1272.1	1272.1	1250.7	1198.5	1152.2	1086.1	1018.9	954.0	889.6	812.5	725.6
20°	1371.2	1366.0	1349.8	1311.5	1258.8	1184.0	1096.5	1005.5	927.9	840.9	740.1
22.5°	1403.7	1402.5	1403.1	1380.5	1338.2	1260.5	1153.3	1046.1	948.7	847.9	733.1
25°	1415.3	1417.6	1423.4	1414.7	1382.8	1305.2	1188.1	1065.2	955.1	839.8	706.5
27.5°	1463.4	1458.8	1465.1	1459.3	1423.4	1330.7	1195.1	1060.6	941.2	810.2	659.0
30°	1501.1	1499.9	1510.9	1505.7	1458.8	1346.9	1188.7	1043.2	907.0	749.4	584.2
32.5°	1522.5	1523.1	1526.0	1504.5	1435.0	1311.5	1157.4	1007.9	842.7	670.0	486.8
35°	1529.5	1526.0	1509.8	1457.0	1362.0	1229.8	1080.3	923.8	755.2	565.1	384.8
37.5°	1499.3	1481.4	1439.6	1360.8	1250.7	1127.2	981.8	817.8	635.2	446.3	286.9
40°	1384.0	1360.2	1307.5	1226.9	1124.3	1005.0	856.0	684.5	492.6	327.5	201.7
42.5°	1211.3	1199.1	1144.1	1073.9	987.0	866.4	712.9	539.0	364.5	226.0	128.7
45°	1003.2	987.6	952.8	890.8	822.4	696.1	552.9	386.0	248.6	142.6	63.8
47.5°	752.3	753.4	729.7	682.7	615.5	510.0	378.5	259.1	155.9	73.6	14.5
50°	585.9	577.8	544.2	496.1	417.9	339.6	244.6	163.4	82.3	15.1	1.2
52.5°	324.6	329.8	311.8	296.2	255.6	202.8	144.3	82.9	17.4	1.7	1.2
55°	79.4	84.0	80.6	82.3	85.2	75.9	58.5	16.2	1.7	1.2	1.2
57.5°	1.7	1.7	1.7	1.7	2.9	4.1	4.1	1.2	1.2	1.2	1.2
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7
2.5°	353.5	342.5	322.2	262.0	210.4	169.8	145.5	143.2
5°	437.6	408.0	365.1	245.7	155.3	98.5	71.3	67.2
7.5°	504.2	462.5	396.4	219.1	106.1	50.4	27.8	23.2
10°	559.3	500.2	412.6	187.8	66.6	21.4	11.6	9.9
12.5°	596.9	525.7	415.5	153.0	38.3	10.4	7.5	7.0
15°	621.3	533.8	401.6	117.7	21.4	7.0	6.4	5.8
17.5°	631.1	526.8	375.0	85.2	11.6	5.2	5.2	5.2
20°	626.5	504.2	335.6	59.7	7.5	4.6	4.6	4.6
22.5°	604.5	465.4	286.3	40.0	5.2	4.1	4.1	4.1
25°	561.0	412.6	234.1	26.7	3.5	3.5	4.1	4.1
27.5°	496.1	347.7	179.1	18.0	2.9	3.5	4.1	4.1
30°	414.4	275.3	128.7	11.6	2.9	3.5	3.5	4.1
32.5°	329.2	200.5	84.6	7.0	2.3	3.5	4.1	4.6
35°	238.8	136.8	53.9	3.5	2.9	3.5	4.1	4.6
37.5°	167.5	89.3	31.3	2.3	2.9	3.5	4.6	4.6
40°	109.0	49.8	11.6	1.7	2.9	4.1	4.6	5.2
42.5°	56.8	17.4	2.3	1.7	2.9	4.1	5.2	5.8
45°	14.5	2.3	0.6	1.7	3.5	4.6	5.8	5.8
47.5°	1.7	0.6	0.6	2.3	3.5	5.2	5.8	6.4
50°	0.6	1.2	1.2	2.3	3.5	5.2	6.4	7.0
52.5°	1.2	1.2	1.2	2.3	4.1	5.2	7.0	7.5
55°	1.2	1.2	1.2	2.3	4.1	5.8	7.0	7.5
57.5°	1.2	1.2	1.2	2.3	4.1	5.8	7.0	7.0
60°	1.2	1.2	1.2	2.3	4.1	5.8	7.0	7.0
62.5°	1.2	1.2	1.7	2.3	4.1	5.2	7.0	7.0
65°	1.2	1.7	1.7	2.3	4.1	5.2	6.4	7.0
67.5°	1.2	1.2	1.7	2.3	4.1	5.2	6.4	7.0
70°	1.2	1.2	1.7	2.3	3.5	4.6	5.8	6.4
72.5°	1.2	1.2	1.7	2.3	3.5	4.6	5.2	5.8
75°	1.2	1.2	1.7	2.3	2.9	4.1	5.2	5.2
77.5°	1.2	1.2	1.7	1.7	2.9	3.5	4.6	4.6
80°	1.2	1.2	1.7	1.7	2.3	2.9	3.5	4.1
82.5°	1.2	1.2	1.2	1.7	1.7	2.3	2.9	2.9
85°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7
87.5°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)