

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: P1317672

Luminaire Tested: LDSQA3D17R509827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R509827DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

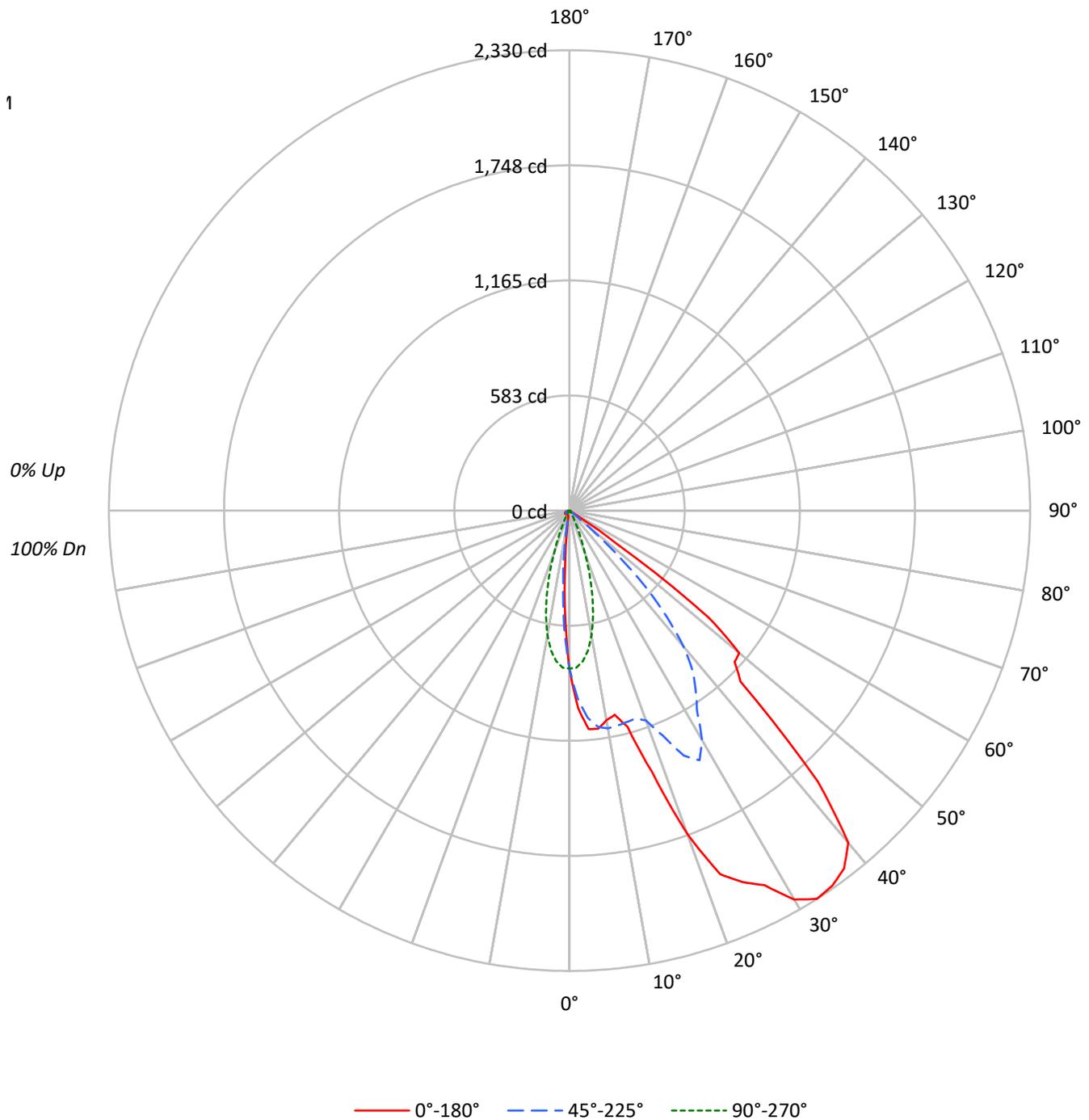
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1243.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	103	110	107	104	101	102	100	98	99	97	95	95	94	92	95	94	92	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	137623	137623	137623	137623	137623
5°	191897	182060	132288	63585	41249
10°	188380	195655	111800	13396	5736
15°	202012	197715	79057	4689	4493
20°	319009	207046	41732	4014	4215
25°	394210	260032	16646	3744	4162
30°	451942	266679	6742	3699	4355
35°	487243	234066	2985	3911	4836
40°	493212	201574	2226	4429	5418
45°	298093	130645	2143	4798	6138
50°	300351	22587	2358	5573	7047
55°	88757	1321	2642	6245	7897
60°	1516	1516	2652	6786	8680
65°	1345	1345	2690	7131	9373
70°	1662	1662	2769	7704	10474
75°	1464	1464	2928	7985	10913
80°	1091	2182	3273	7637	11901
85°	2174	4347	4347	8695	10868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 340496 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	5.2
10°-20°	160.5	12.9
20°-30°	300.6	24.2
30°-40°	359.4	28.9
40°-50°	257.6	20.7
50°-60°	79.4	6.4
60°-70°	10.4	0.8
70°-80°	7.5	0.6
80°-90°	3.1	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°	525.7	42.3
0°-40°	885.1	71.2
0°-60°	1222.0	98.3
0°-90°	1243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	799	799	799	799	799	
5°	1110	1053	765	368	239	103
15°	1133	1109	443	26	25	363
25°	2074	1368	88	20	22	956
35°	2318	1113	14	19	23	1438
45°	1224	536	9	20	25	1124
55°	296	4	9	21	26	381
65°	3	3	7	18	23	4
75°	2	2	4	12	16	2
85°	1	2	2	4	6	1
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°	799.1	799.1	799.1	799.1	799.1	799.1	799.1	799.1	799.1	799.1	799.1
2.5°	999.5	1001.7	1004.9	996.2	990.7	986.3	978.7	976.5	957.9	950.2	942.6
5°	1110.0	1107.9	1110.0	1106.8	1104.6	1098.0	1091.4	1080.5	1068.4	1053.1	1035.6
7.5°	1113.3	1111.1	1115.5	1115.5	1119.9	1119.9	1119.9	1121.0	1114.4	1103.5	1088.1
10°	1077.2	1077.2	1081.6	1079.4	1087.1	1090.3	1098.0	1111.1	1117.7	1118.8	1114.4
12.5°	1058.6	1058.6	1059.7	1055.3	1057.5	1060.8	1069.5	1084.9	1100.2	1115.5	1124.3
15°	1133.0	1135.2	1119.9	1098.0	1081.6	1064.1	1058.6	1068.4	1084.9	1108.9	1128.7
17.5°	1385.9	1389.2	1372.8	1320.2	1269.9	1197.6	1133.0	1101.3	1083.8	1103.5	1129.7
20°	1740.6	1728.6	1700.1	1644.3	1570.9	1459.3	1358.5	1256.7	1159.3	1129.7	1138.5
22.5°	1991.3	1986.9	1963.9	1901.5	1838.0	1734.0	1605.9	1463.6	1322.4	1232.7	1185.6
25°	2074.5	2071.2	2050.4	2013.2	1978.2	1899.3	1784.4	1641.0	1493.2	1368.4	1250.2
27.5°	2136.9	2132.5	2099.7	2058.1	2021.9	1942.0	1836.9	1728.6	1592.8	1424.2	1242.5
30°	2272.6	2260.6	2214.6	2140.2	2071.2	1960.6	1844.6	1709.9	1526.0	1341.0	1163.7
32.5°	2329.6	2323.0	2283.6	2223.4	2147.8	2003.3	1827.1	1601.6	1359.6	1199.8	1070.6
35°	2317.5	2307.7	2267.2	2198.2	2106.2	1967.2	1731.8	1422.0	1225.0	1113.3	967.7
37.5°	2281.4	2267.2	2219.0	2138.0	2026.3	1844.6	1537.0	1276.4	1149.5	1023.6	827.6
40°	2193.8	2170.8	2115.0	2030.7	1919.0	1680.4	1359.6	1188.9	1070.6	896.6	671.1
42.5°	1858.8	1846.8	1874.2	1859.9	1761.4	1480.1	1233.7	1108.9	945.8	724.7	486.1
45°	1223.9	1244.7	1294.0	1378.2	1398.0	1273.2	1130.8	977.6	778.3	536.4	280.2
47.5°	1133.0	1128.7	1140.7	1157.1	1160.4	1107.9	978.7	807.9	578.0	306.5	77.7
50°	1121.0	1114.4	1104.6	1084.9	1043.3	941.5	794.8	589.0	333.9	84.3	5.5
52.5°	885.6	879.1	879.1	850.6	797.0	698.4	548.5	324.0	93.1	5.5	4.4
55°	295.6	315.3	312.0	310.9	335.0	308.7	236.5	83.2	7.7	4.4	4.4
57.5°	5.5	5.5	5.5	9.9	15.3	21.9	13.1	6.6	4.4	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
62.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4
67.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3
77.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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°	799.1	799.1	799.1	799.1	799.1	799.1	799.1	799.1
2.5°	925.0	909.7	880.2	795.9	702.8	596.6	524.4	515.6
5°	1008.2	985.2	937.1	765.2	552.8	367.8	273.7	238.6
7.5°	1063.0	1032.3	973.2	714.8	402.9	193.8	104.0	83.2
10°	1095.8	1067.3	991.8	639.3	256.2	76.6	35.0	32.8
12.5°	1113.3	1086.0	998.4	548.5	144.5	35.0	27.4	27.4
15°	1125.4	1095.8	988.5	443.4	72.3	26.3	25.2	25.2
17.5°	1130.8	1094.7	960.1	333.9	38.3	24.1	24.1	24.1
20°	1134.1	1082.7	907.5	227.7	26.3	21.9	23.0	23.0
22.5°	1137.4	1053.1	838.6	144.5	20.8	20.8	21.9	21.9
25°	1130.8	1001.7	741.1	87.6	18.6	19.7	20.8	21.9
27.5°	1083.8	923.9	622.9	53.6	16.4	18.6	20.8	21.9
30°	1002.8	810.1	486.1	33.9	15.3	18.6	20.8	21.9
32.5°	897.7	679.8	347.0	20.8	15.3	18.6	20.8	21.9
35°	756.4	520.0	225.5	14.2	15.3	18.6	21.9	23.0
37.5°	597.7	363.4	121.5	10.9	15.3	18.6	21.9	23.0
40°	430.2	217.8	43.8	9.9	14.2	19.7	23.0	24.1
42.5°	251.8	81.0	7.7	8.8	14.2	19.7	23.0	24.1
45°	72.3	8.8	4.4	8.8	14.2	19.7	24.1	25.2
47.5°	5.5	3.3	4.4	8.8	14.2	19.7	24.1	26.3
50°	3.3	3.3	3.3	8.8	14.2	20.8	25.2	26.3
52.5°	4.4	4.4	4.4	8.8	14.2	20.8	25.2	26.3
55°	4.4	4.4	4.4	8.8	14.2	20.8	25.2	26.3
57.5°	4.4	4.4	4.4	8.8	14.2	19.7	25.2	26.3
60°	4.4	4.4	4.4	7.7	13.1	19.7	24.1	25.2
62.5°	4.4	4.4	4.4	7.7	13.1	18.6	24.1	24.1
65°	4.4	4.4	4.4	6.6	12.0	17.5	21.9	23.0
67.5°	4.4	4.4	4.4	6.6	10.9	16.4	20.8	21.9
70°	3.3	4.4	4.4	5.5	9.9	15.3	19.7	20.8
72.5°	3.3	3.3	4.4	5.5	8.8	13.1	17.5	18.6
75°	3.3	3.3	3.3	4.4	7.7	12.0	15.3	16.4
77.5°	3.3	3.3	3.3	4.4	6.6	9.9	14.2	14.2
80°	2.2	3.3	3.3	3.3	5.5	7.7	10.9	12.0
82.5°	2.2	2.2	2.2	3.3	4.4	6.6	8.8	8.8
85°	2.2	2.2	2.2	2.2	3.3	4.4	5.5	5.5
87.5°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)