

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: P1318548

Luminaire Tested: LDSQA3D17R509830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318548
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: LDSQA3D17R509830DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

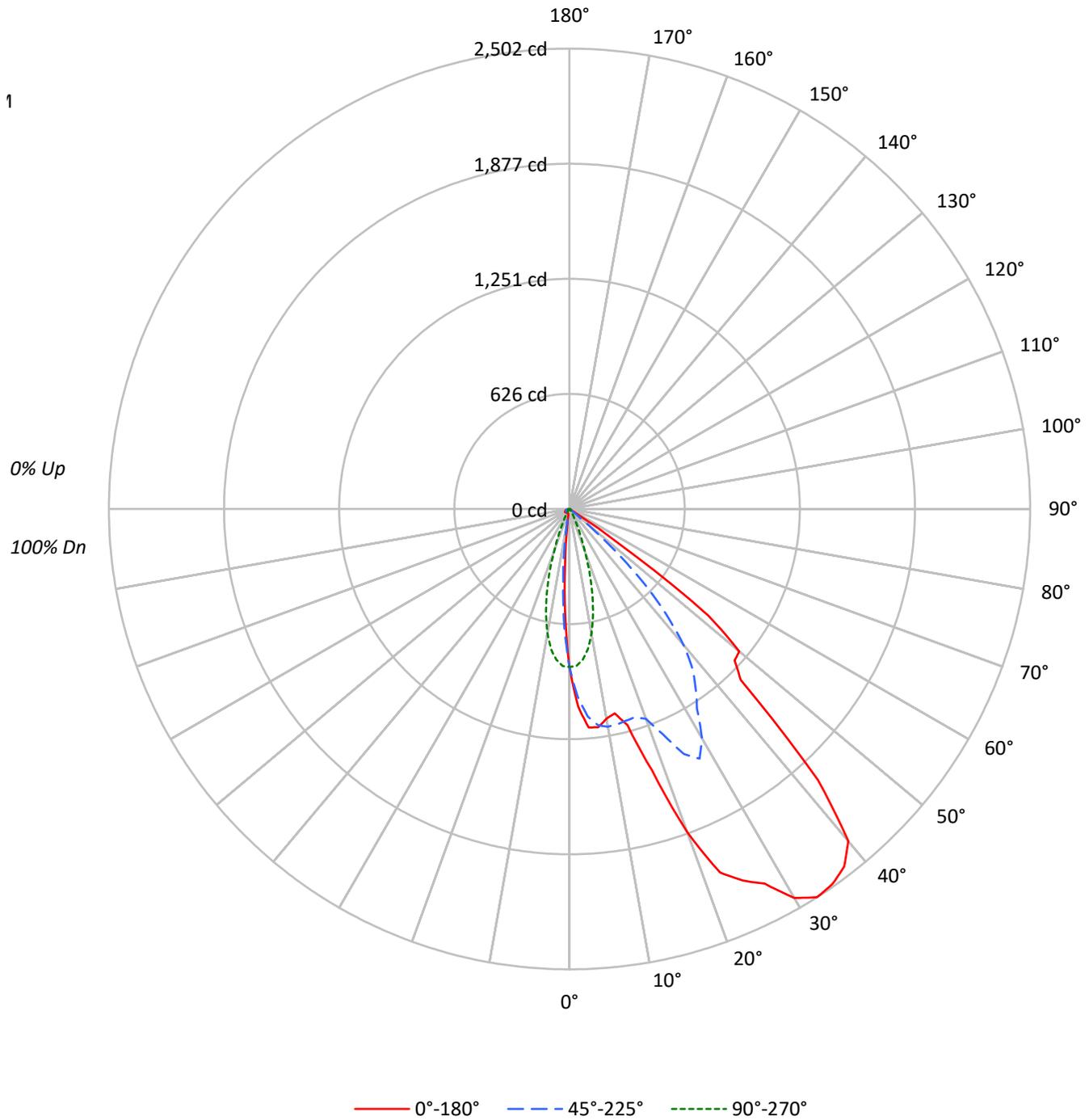
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1335.0 lumens
Efficiency: N/A
Efficacy: 65.4 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
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	103	110	107	104	101	102	100	98	99	97	95	95	94	92	95	94	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	147819	147819	147819	147819	147819
5°	206108	195545	142073	68288	44309
10°	202318	210135	120072	14393	6173
15°	216971	212353	84906	5028	4814
20°	342615	222386	44829	4307	4527
25°	423379	279282	17882	4029	4466
30°	485391	286426	7239	3977	4673
35°	523300	251390	3217	4205	5193
40°	529723	216480	2383	4766	5823
45°	320159	140315	2289	5163	6576
50°	322589	24248	2519	5975	7556
55°	95333	1411	2822	6696	8467
60°	1619	1619	2824	7302	9300
65°	1426	1426	2893	7661	10066
70°	1762	1762	2971	8308	11229
75°	1597	1597	3127	8584	11711
80°	1190	2380	3471	8133	12794
85°	2371	4742	4742	9287	11659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 365680 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	5.2
10°-20°	172.3	12.9
20°-30°	322.8	24.2
30°-40°	386.0	28.9
40°-50°	276.6	20.7
50°-60°	85.3	6.4
60°-70°	11.1	0.8
70°-80°	8.1	0.6
80°-90°	3.3	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°	564.6	42.3
0°-40°	950.6	71.2
0°-60°	1312.5	98.3
0°-90°	1335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	858	858	858	858	858	
5°	1192	1131	822	395	256	111
15°	1217	1191	476	28	27	390
25°	2228	1470	94	21	24	1027
35°	2489	1196	15	20	25	1544
45°	1314	576	9	21	27	1207
55°	318	5	9	22	28	409
65°	4	4	7	19	25	4
75°	2	2	5	13	18	2
85°	1	2	2	5	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°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3
2.5°	1073.5	1075.8	1079.3	1069.9	1064.0	1059.3	1051.1	1048.8	1028.8	1020.5	1012.3
5°	1192.2	1189.9	1192.2	1188.7	1186.3	1179.3	1172.2	1160.5	1147.5	1131.1	1112.3
7.5°	1195.7	1193.4	1198.1	1198.1	1202.8	1202.8	1202.8	1204.0	1196.9	1185.1	1168.7
10°	1156.9	1156.9	1161.6	1159.3	1167.5	1171.0	1179.3	1193.4	1200.4	1201.6	1196.9
12.5°	1136.9	1136.9	1138.1	1133.4	1135.8	1139.3	1148.7	1165.2	1181.6	1198.1	1207.5
15°	1216.9	1219.2	1202.8	1179.3	1161.6	1142.8	1136.9	1147.5	1165.2	1191.0	1212.2
17.5°	1488.5	1492.0	1474.4	1417.9	1363.9	1286.3	1216.9	1182.8	1164.0	1185.1	1213.4
20°	1869.4	1856.5	1825.9	1766.0	1687.2	1567.3	1459.1	1349.8	1245.1	1213.4	1222.8
22.5°	2138.7	2134.0	2109.3	2042.3	1974.1	1862.4	1724.8	1572.0	1420.3	1323.9	1273.3
25°	2228.0	2224.5	2202.2	2162.2	2124.6	2039.9	1916.5	1762.4	1603.7	1469.7	1342.7
27.5°	2295.0	2290.3	2255.1	2210.4	2171.6	2085.8	1972.9	1856.5	1710.7	1529.6	1334.5
30°	2440.8	2427.9	2378.5	2298.6	2224.5	2105.8	1981.1	1836.5	1639.0	1440.3	1249.8
32.5°	2502.0	2494.9	2452.6	2387.9	2306.8	2151.6	1962.3	1720.1	1460.3	1288.6	1149.9
35°	2489.0	2478.5	2435.0	2360.9	2262.1	2112.8	1860.0	1527.3	1315.7	1195.7	1039.4
37.5°	2450.2	2435.0	2383.2	2296.2	2176.3	1981.1	1650.7	1370.9	1234.5	1099.3	888.9
40°	2356.2	2331.5	2271.5	2181.0	2061.1	1804.8	1460.3	1276.9	1149.9	962.9	720.7
42.5°	1996.4	1983.5	2012.9	1997.6	1891.8	1589.6	1325.1	1191.0	1015.8	778.3	522.0
45°	1314.5	1336.8	1389.7	1480.3	1501.4	1367.4	1214.5	1049.9	836.0	576.1	301.0
47.5°	1216.9	1212.2	1225.1	1242.8	1246.3	1189.9	1051.1	867.7	620.8	329.2	83.5
50°	1204.0	1196.9	1186.3	1165.2	1120.5	1011.1	853.6	632.5	358.6	90.5	5.9
52.5°	951.2	944.1	944.1	913.6	855.9	750.1	589.0	348.0	99.9	5.9	4.7
55°	317.5	338.6	335.1	333.9	359.8	331.6	254.0	89.4	8.2	4.7	4.7
57.5°	5.9	5.9	5.9	10.6	16.5	23.5	14.1	7.1	4.7	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
62.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7
67.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5	3.5
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5
77.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
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°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3
2.5°	993.5	977.0	945.3	854.8	754.8	640.8	563.2	553.8
5°	1082.9	1058.2	1006.4	821.8	593.7	395.0	293.9	256.3
7.5°	1141.6	1108.7	1045.2	767.8	432.7	208.1	111.7	89.4
10°	1176.9	1146.3	1065.2	686.6	275.1	82.3	37.6	35.3
12.5°	1195.7	1166.3	1072.3	589.0	155.2	37.6	29.4	29.4
15°	1208.7	1176.9	1061.7	476.2	77.6	28.2	27.0	27.0
17.5°	1214.5	1175.7	1031.1	358.6	41.2	25.9	25.9	25.9
20°	1218.1	1162.8	974.7	244.6	28.2	23.5	24.7	24.7
22.5°	1221.6	1131.1	900.6	155.2	22.3	22.3	23.5	23.5
25°	1214.5	1075.8	796.0	94.1	20.0	21.2	22.3	23.5
27.5°	1164.0	992.3	669.0	57.6	17.6	20.0	22.3	23.5
30°	1077.0	870.0	522.0	36.4	16.5	20.0	22.3	23.5
32.5°	964.1	730.1	372.7	22.3	16.5	20.0	22.3	23.5
35°	812.4	558.5	242.2	15.3	16.5	20.0	23.5	24.7
37.5°	642.0	390.3	130.5	11.8	16.5	20.0	23.5	24.7
40°	462.1	234.0	47.0	10.6	15.3	21.2	24.7	25.9
42.5°	270.4	87.0	8.2	9.4	15.3	21.2	24.7	25.9
45°	77.6	9.4	4.7	9.4	15.3	21.2	25.9	27.0
47.5°	5.9	3.5	4.7	9.4	15.3	21.2	25.9	28.2
50°	3.5	3.5	3.5	9.4	15.3	22.3	27.0	28.2
52.5°	4.7	4.7	4.7	9.4	15.3	22.3	27.0	28.2
55°	4.7	4.7	4.7	9.4	15.3	22.3	27.0	28.2
57.5°	4.7	4.7	4.7	9.4	15.3	21.2	27.0	28.2
60°	4.7	4.7	4.7	8.2	14.1	21.2	25.9	27.0
62.5°	4.7	4.7	4.7	8.2	14.1	20.0	25.9	25.9
65°	4.7	4.7	4.7	7.1	12.9	18.8	23.5	24.7
67.5°	4.7	4.7	4.7	7.1	11.8	17.6	22.3	23.5
70°	3.5	4.7	4.7	5.9	10.6	16.5	21.2	22.3
72.5°	3.5	3.5	4.7	5.9	9.4	14.1	18.8	20.0
75°	3.5	3.5	3.5	4.7	8.2	12.9	16.5	17.6
77.5°	3.5	3.5	3.5	4.7	7.1	10.6	15.3	15.3
80°	2.4	3.5	3.5	3.5	5.9	8.2	11.8	12.9
82.5°	2.4	2.4	2.4	3.5	4.7	7.1	9.4	9.4
85°	2.4	2.4	2.4	2.4	3.5	4.7	5.9	5.9
87.5°	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)