

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: P1318411

Luminaire Tested: LDSQA3D13R559830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R559830DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

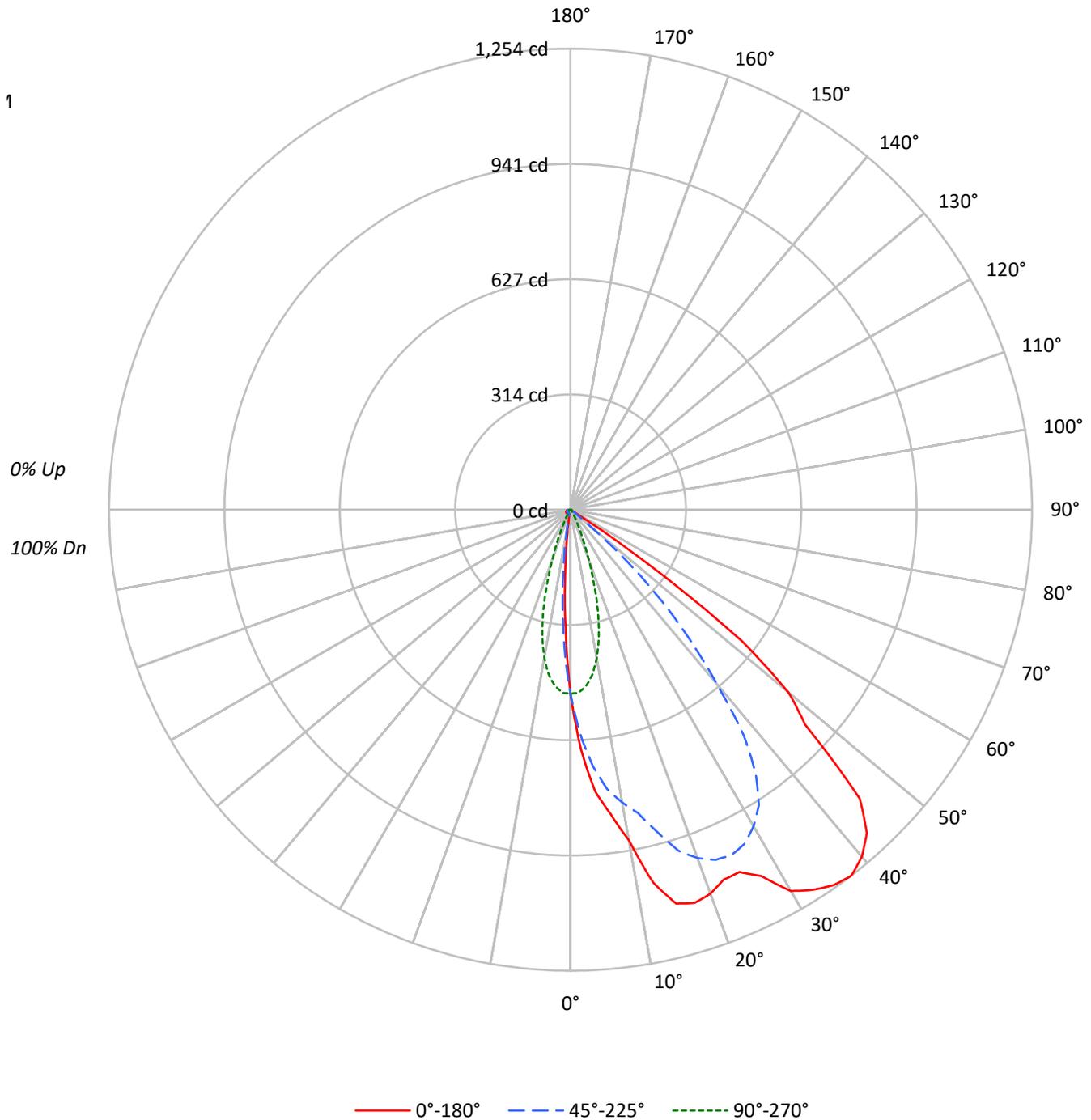
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 835.1 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			81	
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73			73	
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65			65	
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59			59	
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53			53	
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48			48	
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44			44	
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40			40	
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	86197	86197	86197	86197	86197
5°	132911	120999	83259	42753	28093
10°	159700	141425	71666	10790	4320
15°	197732	161520	51207	2978	2336
20°	203656	184778	26447	1998	1998
25°	206616	196830	10603	1786	2071
30°	238142	197752	4614	1869	2168
35°	262133	184364	1976	1976	2439
40°	276889	138759	1147	2293	2608
45°	270814	84807	1072	2484	3191
50°	207164	18085	1179	2920	3697
55°	75996	661	1321	3273	4144
60°	758	758	1516	3754	4753
65°	897	897	1793	3831	5012
70°	755	1108	1813	4381	5841
75°	466	998	1930	4858	6787
80°	694	1488	2182	5058	7240
85°	0	1383	2964	5730	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 270814 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	5.3
10°-20°	126.2	15.1
20°-30°	193.6	23.2
30°-40°	225.5	27.0
40°-50°	180.2	21.6
50°-60°	53.4	6.4
60°-70°	5.7	0.7
70°-80°	4.5	0.5
80°-90°	1.9	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°	363.8	43.6
0°-40°	589.3	70.6
0°-60°	822.9	98.5
0°-90°	835.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	835.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	500	500	500	500	500	
5°	769	700	482	247	162	77
15°	1109	906	287	17	13	306
25°	1087	1036	56	9	11	516
35°	1247	877	9	9	12	777
45°	1112	348	4	10	13	802
55°	253	2	4	11	14	268
65°	2	2	4	9	12	2
75°	1	2	3	7	10	1
85°	0	1	2	3	4	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°	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5
2.5°	652.8	652.8	650.6	651.3	649.9	641.9	640.5	630.3	621.6	612.2	604.2
5°	768.8	770.3	768.1	763.8	758.0	752.2	739.8	730.4	718.1	699.9	683.3
7.5°	834.8	833.4	829.8	828.3	824.7	818.2	809.5	799.3	784.8	766.7	747.1
10°	913.2	900.8	897.2	891.4	879.8	866.8	851.5	837.7	825.4	808.7	787.7
12.5°	1039.4	1037.2	1022.7	1011.8	995.9	966.9	940.7	910.3	874.0	845.0	817.4
15°	1109.0	1110.5	1103.9	1095.2	1085.1	1061.1	1035.0	999.5	956.7	905.9	861.0
17.5°	1121.3	1123.5	1119.9	1116.3	1113.4	1099.6	1083.6	1058.2	1019.1	971.9	905.2
20°	1111.2	1115.5	1116.3	1120.6	1126.4	1120.6	1107.6	1090.2	1057.5	1008.2	944.4
22.5°	1088.7	1096.7	1102.5	1117.7	1132.9	1132.9	1125.0	1111.2	1079.3	1030.7	965.4
25°	1087.3	1088.7	1090.9	1115.5	1139.5	1144.6	1137.3	1122.8	1088.0	1035.8	964.7
27.5°	1123.5	1114.1	1099.6	1124.2	1152.5	1156.9	1146.7	1127.1	1085.8	1024.2	940.0
30°	1197.5	1176.5	1146.0	1164.1	1183.7	1178.6	1158.3	1127.1	1071.3	994.4	893.6
32.5°	1225.8	1214.2	1203.3	1222.9	1226.5	1205.5	1169.2	1122.8	1048.1	952.3	817.4
35°	1246.8	1247.5	1243.2	1246.8	1229.4	1199.7	1159.8	1098.9	1004.6	876.9	716.6
37.5°	1254.1	1255.5	1246.1	1233.0	1206.9	1172.8	1125.0	1055.3	932.0	773.2	564.3
40°	1231.6	1227.2	1212.0	1193.9	1165.6	1130.8	1078.5	974.8	824.0	617.2	440.3
42.5°	1191.7	1184.4	1166.3	1144.6	1114.8	1070.6	987.2	861.7	669.5	481.6	308.3
45°	1111.9	1106.8	1084.4	1068.4	1032.9	975.6	868.2	710.1	517.9	348.2	178.4
47.5°	863.9	864.6	882.0	890.0	877.6	831.9	705.7	539.6	377.9	207.4	60.2
50°	773.2	769.6	752.2	728.2	688.3	620.1	517.9	381.5	223.4	67.5	8.7
52.5°	586.8	586.8	578.1	565.7	523.7	457.7	350.3	211.1	78.3	11.6	2.2
55°	253.1	240.1	247.3	261.1	250.2	217.6	163.9	63.1	13.8	2.2	2.2
57.5°	3.6	8.7	13.1	21.0	28.3	34.1	18.1	6.5	2.2	2.2	2.2
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
67.5°	1.5	1.5	1.5	2.2	1.5	2.2	2.2	2.2	2.2	2.2	2.2
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
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°	500.5	500.5	500.5	500.5	500.5	500.5	500.5	500.5
2.5°	592.6	580.3	559.9	498.3	434.5	375.7	333.6	317.7
5°	664.4	641.9	607.8	481.6	354.7	247.3	186.4	162.5
7.5°	721.0	692.0	642.6	452.6	260.4	132.0	79.1	62.4
10°	758.7	726.8	662.2	409.8	172.6	61.7	29.7	24.7
12.5°	786.2	746.4	669.5	354.7	101.5	28.3	16.0	14.5
15°	806.6	755.1	660.8	287.2	55.8	16.7	13.1	13.1
17.5°	834.8	759.4	639.7	211.8	31.9	12.3	12.3	12.3
20°	856.6	759.4	599.8	144.3	19.6	10.9	10.9	10.9
22.5°	867.5	747.8	551.2	91.4	13.8	10.2	10.9	10.9
25°	856.6	719.5	488.9	55.8	10.9	9.4	10.2	10.9
27.5°	816.7	662.9	405.5	35.5	8.7	9.4	10.2	10.9
30°	750.0	581.0	311.2	23.2	8.0	9.4	10.2	10.9
32.5°	655.7	459.1	201.6	15.2	7.3	9.4	10.2	10.9
35°	512.1	324.9	121.9	9.4	7.3	9.4	10.9	11.6
37.5°	383.7	216.9	66.0	5.8	7.3	9.4	10.9	11.6
40°	266.2	126.2	28.3	5.1	7.3	10.2	11.6	11.6
42.5°	154.5	50.0	7.3	4.4	7.3	10.2	11.6	12.3
45°	56.6	10.2	2.2	4.4	8.0	10.2	11.6	13.1
47.5°	8.0	2.2	2.2	4.4	8.0	10.2	12.3	13.1
50°	2.2	2.2	2.2	4.4	8.0	10.9	13.1	13.8
52.5°	2.2	2.2	2.2	4.4	8.0	10.9	13.1	13.8
55°	2.2	2.2	2.2	4.4	8.0	10.9	13.1	13.8
57.5°	2.2	2.2	2.2	4.4	8.0	10.9	13.1	13.8
60°	2.2	2.2	2.2	4.4	7.3	10.9	13.1	13.8
62.5°	2.2	2.2	2.2	4.4	7.3	10.2	12.3	13.1
65°	2.2	2.2	2.2	4.4	6.5	9.4	12.3	12.3
67.5°	2.2	2.2	2.2	3.6	6.5	9.4	11.6	12.3
70°	2.2	2.2	2.2	3.6	5.8	8.7	10.9	11.6
72.5°	2.2	2.2	2.2	2.9	5.1	8.0	10.2	10.9
75°	1.5	2.2	2.2	2.9	5.1	7.3	9.4	10.2
77.5°	1.5	2.2	2.2	2.2	4.4	5.8	8.0	8.7
80°	1.5	1.5	2.2	2.2	3.6	5.1	6.5	7.3
82.5°	1.5	1.5	1.5	2.2	2.9	3.6	5.1	5.1
85°	1.5	1.5	1.5	1.5	2.2	2.9	3.6	3.6
87.5°	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)