

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: P1320163

Luminaire Tested: LDSQA3D13R559840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320163
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: LDSQA3D13R559840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

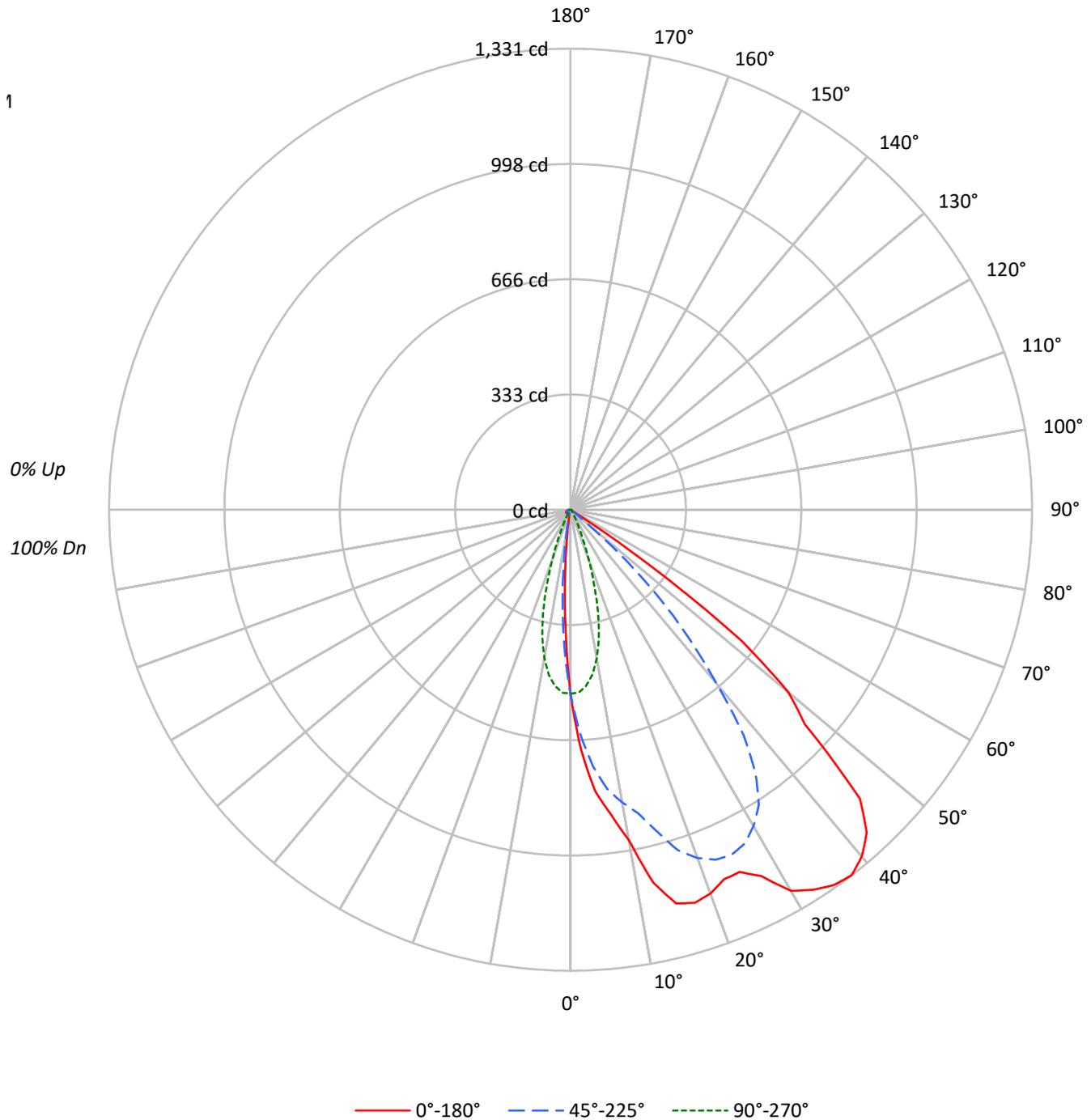
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 886.0 lumens
Efficiency: N/A
Efficacy: 61.1 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 (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	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40		
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	91450	91450	91450	91450	91450
5°	141036	128398	88342	45364	29805
10°	169458	150064	76038	11437	4582
15°	209803	171398	54345	3156	2478
20°	216100	196068	28078	2108	2108
25°	219234	208839	11269	1900	2185
30°	252679	209823	4892	1989	2287
35°	278154	195633	2102	2102	2586
40°	293796	147235	1214	2428	2765
45°	287352	89971	1120	2630	3385
50°	219810	19184	1232	3081	3912
55°	80650	691	1381	3453	4384
60°	792	792	1584	3961	5029
65°	937	937	1875	4075	5338
70°	755	1158	1913	4633	6194
75°	532	998	2063	5124	7187
80°	793	1488	2281	5356	7637
85°	0	1581	2964	6126	7509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 287352 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	5.3
10°-20°	133.9	15.1
20°-30°	205.4	23.2
30°-40°	239.3	27.0
40°-50°	191.2	21.6
50°-60°	56.6	6.4
60°-70°	6.1	0.7
70°-80°	4.7	0.5
80°-90°	2.0	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°	386.0	43.6
0°-40°	625.3	70.6
0°-60°	873.2	98.6
0°-90°	886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	531	531	531	531	531	
5°	816	743	511	262	172	81
15°	1177	961	305	18	14	325
25°	1154	1099	59	10	12	548
35°	1323	930	10	10	12	824
45°	1180	369	5	11	14	851
55°	269	2	5	12	15	285
65°	2	2	5	10	13	2
75°	1	2	3	8	11	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°	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
2.5°	692.7	692.7	690.3	691.1	689.6	681.1	679.6	668.8	659.6	649.6	641.1
5°	815.8	817.3	815.0	810.4	804.3	798.1	785.0	775.0	761.9	742.7	725.0
7.5°	885.8	884.3	880.4	878.9	875.1	868.1	858.9	848.1	832.7	813.5	792.7
10°	969.0	955.9	952.0	945.9	933.5	919.7	903.5	888.9	875.8	858.1	835.8
12.5°	1102.9	1100.6	1085.2	1073.6	1056.7	1025.9	998.2	965.9	927.4	896.6	867.4
15°	1176.7	1178.3	1171.4	1162.1	1151.4	1126.0	1098.2	1060.5	1015.1	961.3	913.5
17.5°	1189.8	1192.1	1188.3	1184.4	1181.4	1166.7	1149.8	1122.9	1081.3	1031.3	960.5
20°	1179.1	1183.7	1184.4	1189.1	1195.2	1189.1	1175.2	1156.7	1122.1	1069.8	1002.0
22.5°	1155.2	1163.7	1169.8	1186.0	1202.1	1202.1	1193.7	1179.1	1145.2	1093.6	1024.4
25°	1153.7	1155.2	1157.5	1183.7	1209.1	1214.5	1206.8	1191.4	1154.4	1099.0	1023.6
27.5°	1192.1	1182.1	1166.7	1192.9	1222.9	1227.5	1216.8	1196.0	1152.1	1086.7	997.4
30°	1270.6	1248.3	1216.0	1235.2	1256.0	1250.6	1229.1	1196.0	1136.7	1055.1	948.2
32.5°	1300.7	1288.3	1276.8	1297.6	1301.4	1279.1	1240.6	1191.4	1112.1	1010.5	867.4
35°	1323.0	1323.7	1319.1	1323.0	1304.5	1273.0	1230.6	1166.0	1065.9	930.5	760.4
37.5°	1330.7	1332.2	1322.2	1308.4	1280.6	1244.5	1193.7	1119.8	989.0	820.4	598.8
40°	1306.8	1302.2	1286.0	1266.8	1236.8	1199.8	1144.4	1034.4	874.3	654.9	467.2
42.5°	1264.5	1256.8	1237.5	1214.5	1182.9	1136.0	1047.5	914.3	710.4	511.0	327.1
45°	1179.8	1174.4	1150.6	1133.7	1095.9	1035.1	921.2	753.5	549.5	369.4	189.3
47.5°	916.6	917.4	935.9	944.3	931.2	882.8	748.8	572.6	401.0	220.1	63.9
50°	820.4	816.6	798.1	772.7	730.4	658.0	549.5	404.8	237.0	71.6	9.2
52.5°	622.6	622.6	613.4	600.3	555.7	485.6	371.7	224.0	83.1	12.3	2.3
55°	268.6	254.7	262.4	277.1	265.5	230.9	173.9	67.0	14.6	2.3	2.3
57.5°	3.8	9.2	13.9	22.3	30.0	36.2	19.2	6.9	2.3	2.3	2.3
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
62.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
67.5°	1.5	1.5	1.5	2.3	1.5	2.3	2.3	2.3	2.3	2.3	2.3
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3
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°	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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°	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
2.5°	628.8	615.7	594.1	528.7	461.0	398.7	354.0	337.1
5°	705.0	681.1	644.9	511.0	376.3	262.4	197.8	172.4
7.5°	765.0	734.2	681.9	480.2	276.3	140.1	83.9	66.2
10°	805.0	771.2	702.7	434.8	183.2	65.4	31.6	26.2
12.5°	834.3	791.9	710.4	376.3	107.7	30.0	16.9	15.4
15°	855.8	801.2	701.1	304.8	59.3	17.7	13.9	13.9
17.5°	885.8	805.8	678.8	224.7	33.9	13.1	13.1	13.1
20°	908.9	805.8	636.5	153.2	20.8	11.5	11.5	11.5
22.5°	920.5	793.5	584.9	97.0	14.6	10.8	11.5	11.5
25°	908.9	763.5	518.7	59.3	11.5	10.0	10.8	11.5
27.5°	866.6	703.4	430.2	37.7	9.2	10.0	10.8	11.5
30°	795.8	616.5	330.2	24.6	8.5	10.0	10.8	11.5
32.5°	695.7	487.2	214.0	16.2	7.7	10.0	10.8	11.5
35°	543.4	344.8	129.3	10.0	7.7	10.0	11.5	12.3
37.5°	407.1	230.1	70.0	6.2	7.7	10.0	11.5	12.3
40°	282.5	133.9	30.0	5.4	7.7	10.8	12.3	12.3
42.5°	163.9	53.1	7.7	4.6	7.7	10.8	12.3	13.1
45°	60.0	10.8	2.3	4.6	8.5	10.8	12.3	13.9
47.5°	8.5	2.3	2.3	4.6	8.5	10.8	13.1	13.9
50°	2.3	2.3	2.3	4.6	8.5	11.5	13.9	14.6
52.5°	2.3	2.3	2.3	4.6	8.5	11.5	13.9	14.6
55°	2.3	2.3	2.3	4.6	8.5	11.5	13.9	14.6
57.5°	2.3	2.3	2.3	4.6	8.5	11.5	13.9	14.6
60°	2.3	2.3	2.3	4.6	7.7	11.5	13.9	14.6
62.5°	2.3	2.3	2.3	4.6	7.7	10.8	13.1	13.9
65°	2.3	2.3	2.3	4.6	6.9	10.0	13.1	13.1
67.5°	2.3	2.3	2.3	3.8	6.9	10.0	12.3	13.1
70°	2.3	2.3	2.3	3.8	6.2	9.2	11.5	12.3
72.5°	2.3	2.3	2.3	3.1	5.4	8.5	10.8	11.5
75°	1.5	2.3	2.3	3.1	5.4	7.7	10.0	10.8
77.5°	1.5	2.3	2.3	2.3	4.6	6.2	8.5	9.2
80°	1.5	1.5	2.3	2.3	3.8	5.4	6.9	7.7
82.5°	1.5	1.5	1.5	2.3	3.1	3.8	5.4	5.4
85°	1.5	1.5	1.5	1.5	2.3	3.1	3.8	3.8
87.5°	0.8	0.8	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)