

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: P1317535

Luminaire Tested: LDSQA3D13R559827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317535
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: LDSQA3D13R559827DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

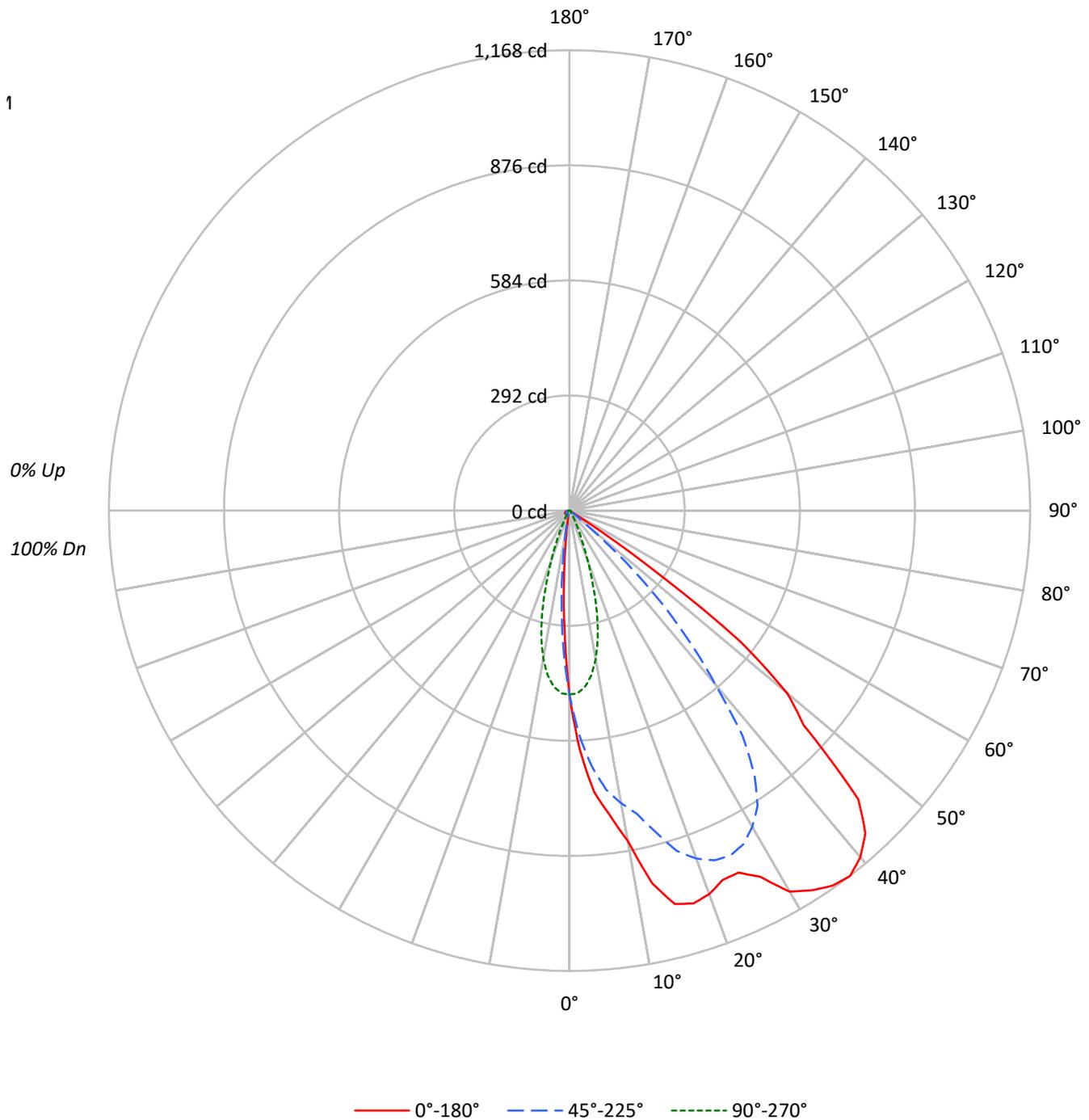
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 778.0 lumens
Efficiency: N/A
Efficacy: 53.7 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				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	102	103	100	98	99	97	95	95	94	93	93	93	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	83	83	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	75	75	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	67	67	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	61	61	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	55	55	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	50	50	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	45	45	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	41	41	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	80307	80307	80307	80307	80307
5°	123852	112753	77571	39832	26174
10°	148787	131772	66769	10038	4022
15°	184235	150501	47713	2764	2175
20°	189745	172169	24651	1851	1851
25°	192497	183395	9881	1672	1919
30°	221894	184249	4295	1750	2009
35°	244242	171770	1850	1850	2271
40°	257982	129294	1057	2136	2428
45°	252328	79011	999	2314	2971
50°	193017	16826	1099	2706	3430
55°	70832	601	1231	3033	3843
60°	689	689	1412	3479	4409
65°	815	815	1671	3586	4686
70°	705	1007	1712	4079	5438
75°	466	932	1797	4525	6321
80°	694	1389	1984	4661	6744
85°	0	1383	2766	5335	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 252328 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	5.3
10°-20°	117.6	15.1
20°-30°	180.3	23.2
30°-40°	210.1	27.0
40°-50°	167.9	21.6
50°-60°	49.7	6.4
60°-70°	5.3	0.7
70°-80°	4.2	0.5
80°-90°	1.8	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°	339.0	43.6
0°-40°	549.1	70.6
0°-60°	766.7	98.5
0°-90°	778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	466	466	466	466	466	
5°	716	652	449	230	151	71
15°	1033	844	268	16	12	285
25°	1013	965	52	9	10	481
35°	1162	817	9	9	11	724
45°	1036	324	4	10	12	747
55°	236	2	4	10	13	250
65°	2	2	4	9	12	2
75°	1	1	3	7	10	1
85°	0	1	1	3	3	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°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	608.2	608.2	606.2	606.9	605.5	598.1	596.7	587.3	579.2	570.4	562.9
5°	716.4	717.7	715.7	711.6	706.2	700.8	689.3	680.5	669.0	652.2	636.6
7.5°	777.9	776.5	773.1	771.8	768.4	762.3	754.2	744.7	731.2	714.3	696.1
10°	850.8	839.4	836.0	830.6	819.8	807.6	793.4	780.6	769.1	753.5	733.9
12.5°	968.4	966.4	952.9	942.7	927.9	900.8	876.5	848.1	814.3	787.3	761.6
15°	1033.3	1034.7	1028.6	1020.5	1011.0	988.7	964.4	931.3	891.4	844.1	802.2
17.5°	1044.8	1046.8	1043.4	1040.1	1037.4	1024.5	1009.7	986.0	949.5	905.6	843.4
20°	1035.3	1039.4	1040.1	1044.1	1049.5	1044.1	1032.0	1015.7	985.3	939.4	879.9
22.5°	1014.4	1021.8	1027.2	1041.4	1055.6	1055.6	1048.2	1035.3	1005.6	960.3	899.5
25°	1013.0	1014.4	1016.4	1039.4	1061.7	1066.4	1059.7	1046.1	1013.7	965.1	898.8
27.5°	1046.8	1038.0	1024.5	1047.5	1073.9	1077.9	1068.4	1050.2	1011.7	954.2	875.8
30°	1115.8	1096.2	1067.8	1084.7	1102.9	1098.2	1079.3	1050.2	998.2	926.5	832.6
32.5°	1142.1	1131.3	1121.2	1139.4	1142.8	1123.2	1089.4	1046.1	976.5	887.3	761.6
35°	1161.7	1162.4	1158.3	1161.7	1145.5	1117.8	1080.6	1023.8	936.0	817.0	667.7
37.5°	1168.5	1169.8	1161.0	1148.9	1124.5	1092.8	1048.2	983.3	868.4	720.4	525.8
40°	1147.5	1143.5	1129.3	1112.4	1086.0	1053.6	1004.9	908.3	767.7	575.1	410.2
42.5°	1110.3	1103.6	1086.7	1066.4	1038.7	997.5	919.8	802.9	623.8	448.7	287.2
45°	1036.0	1031.3	1010.3	995.5	962.3	909.0	808.9	661.6	482.5	324.4	166.2
47.5°	804.9	805.6	821.8	829.2	817.7	775.1	657.6	502.8	352.1	193.3	56.1
50°	720.4	717.0	700.8	678.5	641.3	577.8	482.5	355.5	208.1	62.8	8.1
52.5°	546.7	546.7	538.6	527.1	487.9	426.4	326.4	196.7	73.0	10.8	2.0
55°	235.9	223.7	230.4	243.3	233.2	202.7	152.7	58.8	12.8	2.0	2.0
57.5°	3.4	8.1	12.2	19.6	26.4	31.8	16.9	6.1	2.0	2.0	2.0
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	1.4	1.4	1.4	2.0	1.4	2.0	2.0	2.0	2.0	2.0	2.0
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
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°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	552.1	540.6	521.7	464.3	404.8	350.1	310.9	296.0
5°	619.0	598.1	566.3	448.7	330.5	230.4	173.7	151.4
7.5°	671.8	644.7	598.8	421.7	242.6	123.0	73.7	58.1
10°	706.9	677.2	617.0	381.8	160.8	57.4	27.7	23.0
12.5°	732.6	695.4	623.8	330.5	94.6	26.4	14.9	13.5
15°	751.5	703.5	615.7	267.6	52.0	15.5	12.2	12.2
17.5°	777.9	707.6	596.1	197.3	29.7	11.5	11.5	11.5
20°	798.1	707.6	558.9	134.5	18.2	10.1	10.1	10.1
22.5°	808.3	696.8	513.6	85.2	12.8	9.5	10.1	10.1
25°	798.1	670.4	455.5	52.0	10.1	8.8	9.5	10.1
27.5°	761.0	617.7	377.8	33.1	8.1	8.8	9.5	10.1
30°	698.8	541.3	289.9	21.6	7.4	8.8	9.5	10.1
32.5°	610.9	427.8	187.9	14.2	6.8	8.8	9.5	10.1
35°	477.1	302.8	113.5	8.8	6.8	8.8	10.1	10.8
37.5°	357.5	202.1	61.5	5.4	6.8	8.8	10.1	10.8
40°	248.0	117.6	26.4	4.7	6.8	9.5	10.8	10.8
42.5°	143.9	46.6	6.8	4.1	6.8	9.5	10.8	11.5
45°	52.7	9.5	2.0	4.1	7.4	9.5	10.8	12.2
47.5°	7.4	2.0	2.0	4.1	7.4	9.5	11.5	12.2
50°	2.0	2.0	2.0	4.1	7.4	10.1	12.2	12.8
52.5°	2.0	2.0	2.0	4.1	7.4	10.1	12.2	12.8
55°	2.0	2.0	2.0	4.1	7.4	10.1	12.2	12.8
57.5°	2.0	2.0	2.0	4.1	7.4	10.1	12.2	12.8
60°	2.0	2.0	2.0	4.1	6.8	10.1	12.2	12.8
62.5°	2.0	2.0	2.0	4.1	6.8	9.5	11.5	12.2
65°	2.0	2.0	2.0	4.1	6.1	8.8	11.5	11.5
67.5°	2.0	2.0	2.0	3.4	6.1	8.8	10.8	11.5
70°	2.0	2.0	2.0	3.4	5.4	8.1	10.1	10.8
72.5°	2.0	2.0	2.0	2.7	4.7	7.4	9.5	10.1
75°	1.4	2.0	2.0	2.7	4.7	6.8	8.8	9.5
77.5°	1.4	2.0	2.0	2.0	4.1	5.4	7.4	8.1
80°	1.4	1.4	2.0	2.0	3.4	4.7	6.1	6.8
82.5°	1.4	1.4	1.4	2.0	2.7	3.4	4.7	4.7
85°	1.4	1.4	1.4	1.4	2.0	2.7	3.4	3.4
87.5°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)