

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: P1316480

Luminaire Tested: LDSQA3D09R559740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316480
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: LDSQA3D09R559740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

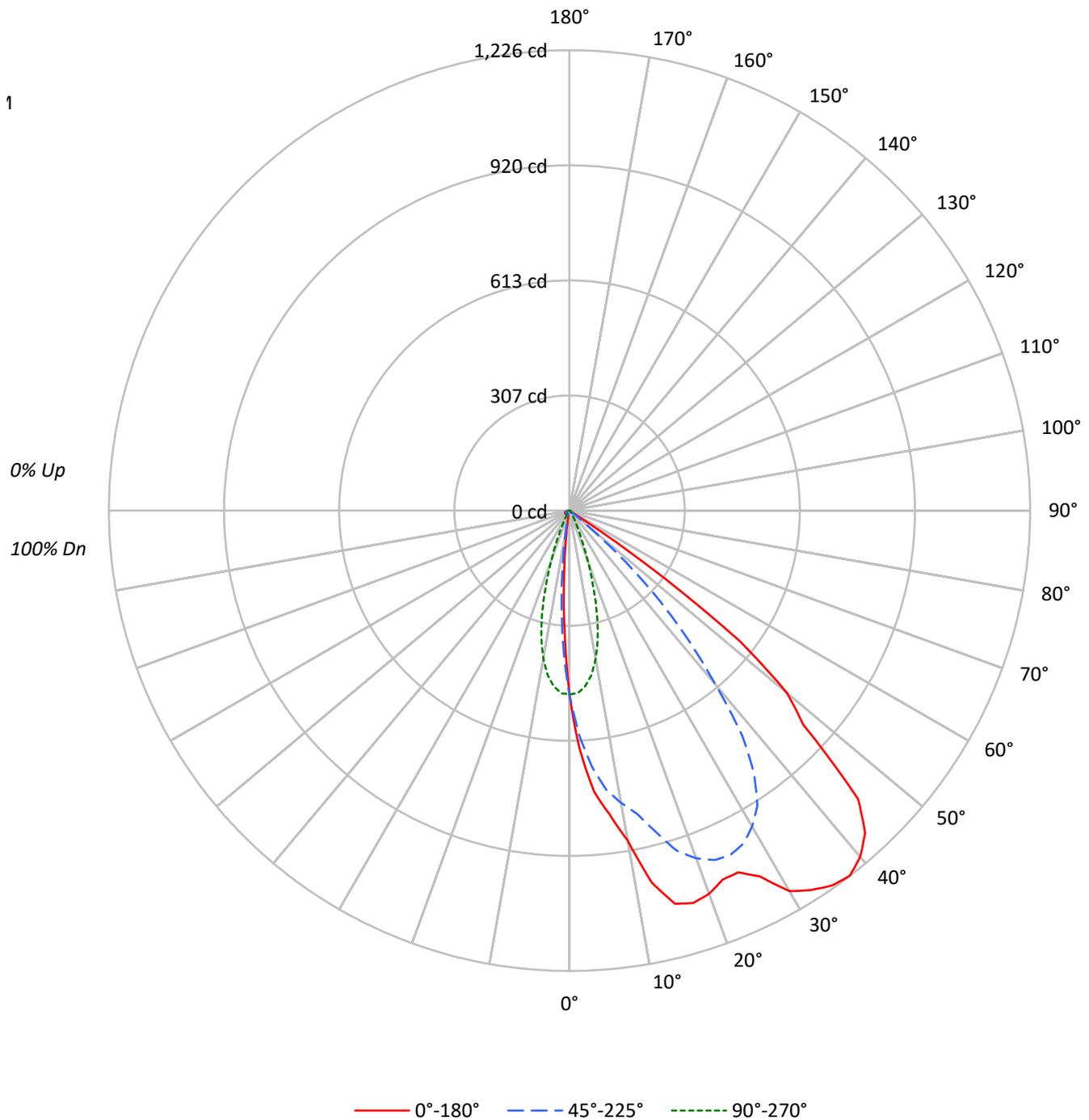
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 816.0 lumens
Efficiency: N/A
Efficacy: 73.5 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): 11.1
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	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	84234	84234	84234	84234	84234
5°	129885	118250	81375	41785	27453
10°	156062	138207	70039	10528	4215
15°	193239	157847	50048	2906	2282
20°	199019	180581	25860	1943	1943
25°	201903	192345	10375	1748	2014
30°	232732	193258	4514	1830	2108
35°	256184	180180	1934	1934	2376
40°	270594	135612	1124	2226	2540
45°	264652	82859	1047	2411	3118
50°	202449	17657	1152	2840	3617
55°	74285	631	1291	3183	4054
60°	723	723	1481	3651	4650
65°	856	856	1752	3749	4890
70°	705	1057	1762	4280	5690
75°	466	932	1863	4724	6588
80°	694	1389	2083	4959	7042
85°	0	1383	2766	5533	6916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 264652 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	5.3
10°-20°	123.3	15.1
20°-30°	189.1	23.2
30°-40°	220.4	27.0
40°-50°	176.1	21.6
50°-60°	52.1	6.4
60°-70°	5.6	0.7
70°-80°	4.4	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°	355.5	43.6
0°-40°	575.9	70.6
0°-60°	804.2	98.6
0°-90°	816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	816.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	489	489	489	489	489	
5°	751	684	471	242	159	75
15°	1084	885	281	16	13	299
25°	1062	1012	55	9	11	505
35°	1218	857	9	9	11	759
45°	1087	340	4	10	13	783
55°	247	2	4	11	14	262
65°	2	2	4	9	12	2
75°	1	1	3	7	10	1
85°	0	1	1	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°	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1
2.5°	637.9	637.9	635.8	636.5	635.1	627.3	625.9	616.0	607.5	598.2	590.4
5°	751.3	752.8	750.6	746.4	740.7	735.0	723.0	713.8	701.7	684.0	667.7
7.5°	815.8	814.4	810.9	809.5	805.9	799.5	791.0	781.1	766.9	749.2	730.1
10°	892.4	880.3	876.8	871.1	859.8	847.0	832.1	818.7	806.6	790.3	769.8
12.5°	1015.7	1013.6	999.4	988.8	973.2	944.9	919.3	889.6	854.1	825.8	798.8
15°	1083.8	1085.2	1078.8	1070.3	1060.4	1037.0	1011.5	976.7	934.9	885.3	841.4
17.5°	1095.8	1098.0	1094.4	1090.9	1088.0	1074.6	1059.0	1034.2	995.9	949.8	884.6
20°	1085.9	1090.2	1090.9	1095.1	1100.8	1095.1	1082.4	1065.3	1033.5	985.3	922.9
22.5°	1063.9	1071.7	1077.4	1092.3	1107.2	1107.2	1099.4	1085.9	1054.7	1007.2	943.4
25°	1062.5	1063.9	1066.1	1090.2	1113.5	1118.5	1111.4	1097.2	1063.2	1012.2	942.7
27.5°	1098.0	1088.7	1074.6	1098.7	1126.3	1130.6	1120.6	1101.5	1061.1	1000.8	918.6
30°	1170.3	1149.7	1119.9	1137.6	1156.8	1151.8	1132.0	1101.5	1046.9	971.8	873.3
32.5°	1197.9	1186.6	1175.9	1195.1	1198.6	1178.1	1142.6	1097.2	1024.2	930.7	798.8
35°	1218.5	1219.2	1214.9	1218.5	1201.4	1172.4	1133.4	1073.9	981.7	857.0	700.3
37.5°	1225.5	1227.0	1217.7	1205.0	1179.5	1146.2	1099.4	1031.3	910.8	755.6	551.5
40°	1203.6	1199.3	1184.4	1166.7	1139.1	1105.0	1054.0	952.6	805.2	603.2	430.3
42.5°	1164.6	1157.5	1139.8	1118.5	1089.4	1046.2	964.7	842.1	654.2	470.7	301.2
45°	1086.6	1081.7	1059.7	1044.1	1009.4	953.4	848.5	693.9	506.1	340.2	174.4
47.5°	844.2	844.9	861.9	869.7	857.7	813.0	689.7	527.4	369.3	202.7	58.8
50°	755.6	752.1	735.0	711.7	672.7	606.0	506.1	372.8	218.3	65.9	8.5
52.5°	573.4	573.4	564.9	552.9	511.8	447.3	342.4	206.3	76.6	11.3	2.1
55°	247.4	234.6	241.7	255.2	244.5	212.6	160.2	61.7	13.5	2.1	2.1
57.5°	3.5	8.5	12.8	20.6	27.6	33.3	17.7	6.4	2.1	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	1.4	1.4	1.4	2.1	1.4	2.1	2.1	2.1	2.1	2.1	2.1
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1
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°	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1
2.5°	579.1	567.1	547.2	487.0	424.6	367.2	326.1	310.5
5°	649.3	627.3	594.0	470.7	346.6	241.7	182.2	158.8
7.5°	704.6	676.2	628.0	442.3	254.5	129.0	77.3	61.0
10°	741.4	710.2	647.1	400.5	168.7	60.2	29.1	24.1
12.5°	768.4	729.4	654.2	346.6	99.2	27.6	15.6	14.2
15°	788.2	737.9	645.7	280.7	54.6	16.3	12.8	12.8
17.5°	815.8	742.1	625.2	207.0	31.2	12.0	12.0	12.0
20°	837.1	742.1	586.2	141.1	19.1	10.6	10.6	10.6
22.5°	847.7	730.8	538.7	89.3	13.5	9.9	10.6	10.6
25°	837.1	703.1	477.7	54.6	10.6	9.2	9.9	10.6
27.5°	798.1	647.9	396.2	34.7	8.5	9.2	9.9	10.6
30°	732.9	567.8	304.1	22.7	7.8	9.2	9.9	10.6
32.5°	640.8	448.7	197.1	14.9	7.1	9.2	9.9	10.6
35°	500.4	317.5	119.1	9.2	7.1	9.2	10.6	11.3
37.5°	375.0	211.9	64.5	5.7	7.1	9.2	10.6	11.3
40°	260.1	123.3	27.6	5.0	7.1	9.9	11.3	11.3
42.5°	151.0	48.9	7.1	4.3	7.1	9.9	11.3	12.0
45°	55.3	9.9	2.1	4.3	7.8	9.9	11.3	12.8
47.5°	7.8	2.1	2.1	4.3	7.8	9.9	12.0	12.8
50°	2.1	2.1	2.1	4.3	7.8	10.6	12.8	13.5
52.5°	2.1	2.1	2.1	4.3	7.8	10.6	12.8	13.5
55°	2.1	2.1	2.1	4.3	7.8	10.6	12.8	13.5
57.5°	2.1	2.1	2.1	4.3	7.8	10.6	12.8	13.5
60°	2.1	2.1	2.1	4.3	7.1	10.6	12.8	13.5
62.5°	2.1	2.1	2.1	4.3	7.1	9.9	12.0	12.8
65°	2.1	2.1	2.1	4.3	6.4	9.2	12.0	12.0
67.5°	2.1	2.1	2.1	3.5	6.4	9.2	11.3	12.0
70°	2.1	2.1	2.1	3.5	5.7	8.5	10.6	11.3
72.5°	2.1	2.1	2.1	2.8	5.0	7.8	9.9	10.6
75°	1.4	2.1	2.1	2.8	5.0	7.1	9.2	9.9
77.5°	1.4	2.1	2.1	2.1	4.3	5.7	7.8	8.5
80°	1.4	1.4	2.1	2.1	3.5	5.0	6.4	7.1
82.5°	1.4	1.4	1.4	2.1	2.8	3.5	5.0	5.0
85°	1.4	1.4	1.4	1.4	2.1	2.8	3.5	3.5
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)