

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: P1308362

Luminaire Tested: LDSQA3D17R709027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R709027DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

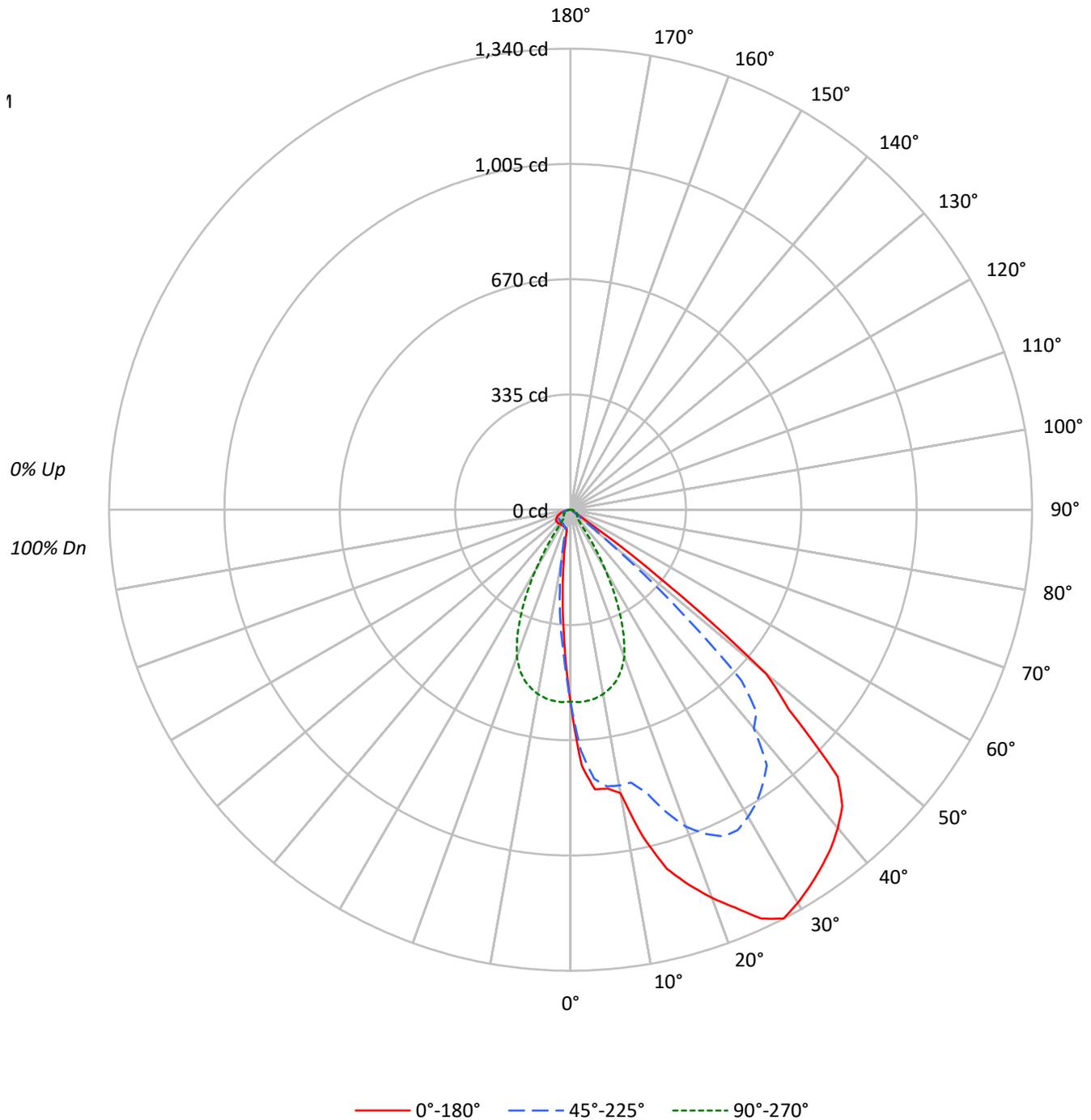
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1059.0 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	96031	96031	96031	96031	96031
5°	141053	135659	96398	57552	45087
10°	146252	142264	95187	27526	11140
15°	192615	151696	91699	9860	9646
20°	220004	179702	83464	9475	9695
25°	249125	199110	65540	9140	9596
30°	262383	205030	40628	9088	10281
35°	266780	204631	13393	9356	10870
40°	271493	186129	6475	10005	11893
45°	267209	170930	6722	10546	12884
50°	198644	31562	6752	11601	14174
55°	15884	4324	7206	12281	15163
60°	3307	4547	7027	12400	15741
65°	3423	4401	6846	12225	16178
70°	3021	4230	6647	11481	15711
75°	2396	3993	5590	11179	15172
80°	2380	3570	5951	10711	14282
85°	2371	4742	7114	9485	11856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 270424 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	4.8
10°-20°	142.7	13.5
20°-30°	239.6	22.6
30°-40°	288.1	27.2
40°-50°	228.4	21.6
50°-60°	73.1	6.9
60°-70°	20.4	1.9
70°-80°	12.2	1.1
80°-90°	3.8	0.4
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°	433.0	40.9
0°-40°	721.2	68.1
0°-60°	1022.6	96.6
0°-90°	1059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	558	558	558	558	558	
5°	816	785	558	333	261	77
15°	1080	851	514	55	54	304
25°	1311	1048	345	48	50	599
35°	1269	973	64	44	52	795
45°	1097	702	28	43	53	788
55°	53	14	24	41	50	166
65°	8	11	17	30	40	8
75°	4	6	8	17	23	4
85°	1	2	4	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°	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6
2.5°	743.8	748.6	748.6	742.6	745.0	735.4	728.2	717.4	715.0	701.8	684.9
5°	815.9	813.5	813.5	808.7	811.1	807.5	803.9	801.5	794.3	784.7	775.1
7.5°	817.1	819.5	820.7	819.5	824.3	820.7	820.7	820.7	815.9	811.1	801.5
10°	836.3	832.7	829.1	820.7	815.9	812.3	812.3	813.5	815.9	813.5	807.5
12.5°	974.5	961.3	955.3	934.9	919.3	892.8	862.8	839.9	819.5	812.3	807.5
15°	1080.3	1077.9	1065.9	1046.6	1027.4	996.2	961.3	926.5	889.2	850.8	823.1
17.5°	1142.8	1138.0	1125.9	1105.5	1082.7	1053.8	1026.2	999.8	963.7	920.5	876.0
20°	1200.4	1189.6	1174.0	1150.0	1127.1	1099.5	1069.5	1044.2	1014.2	980.5	928.9
22.5°	1252.1	1242.5	1217.3	1184.8	1162.0	1135.5	1109.1	1085.1	1057.4	1019.0	972.1
25°	1311.0	1289.4	1248.5	1206.4	1178.8	1157.2	1138.0	1118.7	1089.9	1047.8	992.6
27.5°	1339.8	1309.8	1265.3	1223.3	1196.8	1174.0	1153.6	1134.3	1101.9	1050.2	986.5
30°	1319.4	1302.6	1271.3	1238.9	1217.3	1195.6	1171.6	1142.8	1091.1	1031.0	972.1
32.5°	1295.4	1287.0	1272.5	1253.3	1240.1	1218.5	1184.8	1138.0	1065.9	1007.0	943.3
35°	1268.9	1265.3	1260.5	1252.1	1243.7	1223.3	1181.2	1112.7	1040.6	973.3	912.0
37.5°	1241.3	1237.7	1241.3	1240.1	1232.9	1206.4	1142.8	1079.1	1004.6	936.1	817.1
40°	1207.6	1205.2	1211.3	1217.3	1208.8	1174.0	1105.5	1028.6	962.5	827.9	787.1
42.5°	1168.0	1166.8	1177.6	1182.4	1170.4	1118.7	1038.2	981.7	842.3	799.1	703.0
45°	1097.1	1099.5	1104.3	1110.3	1103.1	1046.6	973.3	870.0	808.7	701.8	400.1
47.5°	859.2	861.6	885.6	936.1	970.9	951.7	889.2	812.3	723.4	401.3	126.2
50°	741.4	739.0	740.2	752.2	779.9	806.3	787.1	745.0	431.4	117.8	15.6
52.5°	325.6	361.7	400.1	508.3	578.0	651.3	665.7	466.2	140.6	15.6	15.6
55°	52.9	55.3	69.7	102.1	183.9	277.6	336.5	156.2	14.4	14.4	14.4
57.5°	10.8	10.8	10.8	12.0	18.0	38.5	44.5	13.2	13.2	13.2	14.4
60°	9.6	9.6	9.6	9.6	10.8	10.8	10.8	12.0	12.0	13.2	13.2
62.5°	9.6	9.6	9.6	9.6	9.6	9.6	10.8	10.8	12.0	12.0	13.2
65°	8.4	8.4	8.4	8.4	9.6	9.6	9.6	9.6	10.8	10.8	12.0
67.5°	7.2	7.2	7.2	7.2	8.4	8.4	8.4	9.6	9.6	9.6	10.8
70°	6.0	6.0	6.0	6.0	7.2	7.2	7.2	7.2	8.4	8.4	8.4
72.5°	4.8	4.8	4.8	4.8	6.0	6.0	6.0	6.0	7.2	7.2	7.2
75°	3.6	3.6	4.8	4.8	4.8	4.8	4.8	4.8	6.0	6.0	6.0
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	4.8	4.8
80°	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6	3.6	3.6
82.5°	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	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°	557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6
2.5°	674.1	657.3	634.5	560.0	491.5	429.0	397.7	394.1
5°	759.4	743.8	705.4	557.6	426.6	332.9	276.4	260.8
7.5°	791.9	778.7	745.0	552.8	365.3	239.1	175.4	151.4
10°	800.3	791.9	763.0	544.3	301.6	157.4	82.9	63.7
12.5°	803.9	797.9	770.2	531.1	237.9	81.7	56.5	56.5
15°	809.9	803.9	777.5	514.3	175.4	55.3	54.1	54.1
17.5°	836.3	817.1	787.1	489.1	115.4	52.9	52.9	52.9
20°	879.6	837.5	791.9	455.4	72.1	51.7	51.7	52.9
22.5°	915.6	859.2	790.7	405.0	52.9	49.3	50.5	51.7
25°	931.3	868.8	779.9	344.9	45.7	48.1	50.5	50.5
27.5°	928.9	872.4	770.2	276.4	43.3	46.9	49.3	51.7
30°	915.6	862.8	748.6	204.3	40.9	45.7	49.3	51.7
32.5°	892.8	825.5	705.4	132.2	39.7	45.7	49.3	51.7
35°	818.3	765.4	642.9	63.7	38.5	44.5	50.5	51.7
37.5°	775.1	701.8	490.3	31.2	37.3	44.5	50.5	51.7
40°	705.4	523.9	221.1	28.8	37.3	44.5	50.5	52.9
42.5°	443.4	215.1	36.0	27.6	36.0	44.5	50.5	52.9
45°	162.2	28.8	19.2	27.6	36.0	43.3	50.5	52.9
47.5°	16.8	16.8	18.0	26.4	34.8	43.3	50.5	52.9
50°	15.6	16.8	18.0	25.2	33.6	43.3	49.3	52.9
52.5°	15.6	16.8	18.0	25.2	32.4	42.1	49.3	52.9
55°	15.6	16.8	16.8	24.0	31.2	40.9	48.1	50.5
57.5°	14.4	15.6	16.8	22.8	30.0	38.5	46.9	49.3
60°	14.4	15.6	16.8	20.4	28.8	36.0	44.5	45.7
62.5°	13.2	14.4	15.6	19.2	26.4	33.6	40.9	43.3
65°	13.2	13.2	14.4	16.8	24.0	30.0	37.3	39.7
67.5°	10.8	12.0	12.0	14.4	20.4	26.4	33.6	36.0
70°	9.6	9.6	10.8	13.2	18.0	22.8	28.8	31.2
72.5°	8.4	8.4	8.4	10.8	15.6	20.4	25.2	27.6
75°	7.2	7.2	7.2	8.4	13.2	16.8	21.6	22.8
77.5°	6.0	6.0	6.0	7.2	10.8	14.4	16.8	19.2
80°	4.8	4.8	4.8	6.0	8.4	10.8	13.2	14.4
82.5°	3.6	3.6	3.6	4.8	6.0	7.2	9.6	9.6
85°	2.4	2.4	2.4	3.6	3.6	4.8	6.0	6.0
87.5°	1.2	1.2	1.2	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)