

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: P1308031

Luminaire Tested: LDSQA3D09R659027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R659027DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

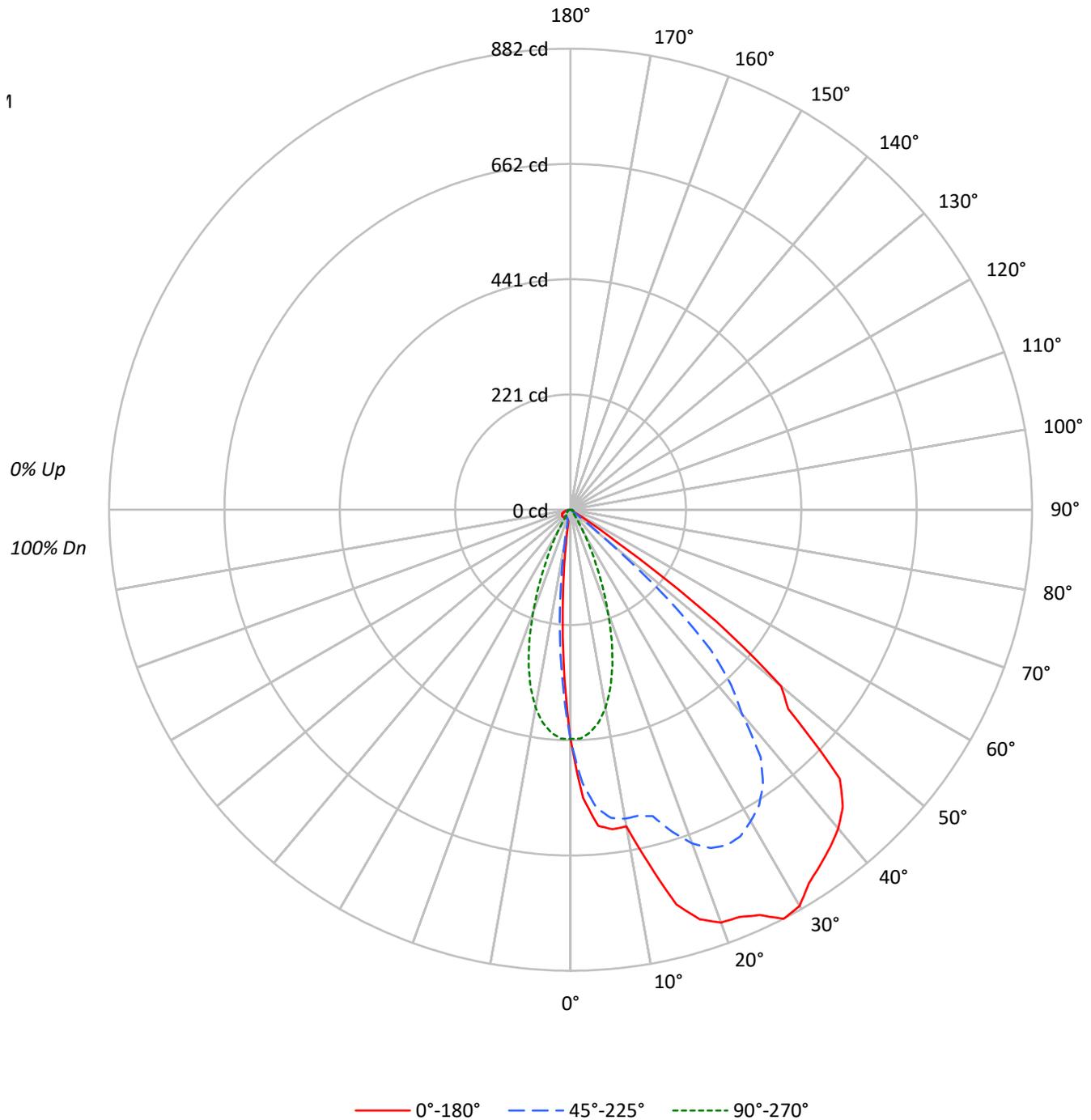
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 657.0 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 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	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	75485	75485	75485	75485	75485
5°	104938	99026	73889	40610	28560
10°	107586	104945	67224	11350	4180
15°	139393	108227	55023	3655	3530
20°	154043	124499	38286	3262	3372
25°	162568	134539	21663	3116	3382
30°	174067	136859	9784	3122	3540
35°	174693	134788	3154	3301	3869
40°	178980	114501	2158	3530	4294
45°	177263	92285	2168	3824	4652
50°	140664	21756	2197	4207	5305
55°	33419	1231	2252	4714	5945
60°	1171	1412	2583	4926	6338
65°	1386	1386	2486	5298	6968
70°	1007	1360	2417	5136	7201
75°	932	1331	2262	5456	7253
80°	694	1389	2678	5455	7438
85°	1383	2766	2766	5335	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 177604 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	5.6
10°-20°	96.3	14.7
20°-30°	151.3	23.0
30°-40°	173.1	26.3
40°-50°	139.1	21.2
50°-60°	45.3	6.9
60°-70°	8.0	1.2
70°-80°	5.3	0.8
80°-90°	1.9	0.3
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°	284.2	43.3
0°-40°	457.4	69.6
0°-60°	641.8	97.7
0°-90°	657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	657.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	438	438	438	438	438	
5°	607	573	427	235	165	57
15°	782	607	309	20	20	218
25°	856	708	114	16	18	399
35°	831	641	15	16	18	522
45°	728	379	9	16	19	524
55°	111	4	8	16	20	159
65°	3	3	6	13	17	3
75°	1	2	3	8	11	2
85°	1	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°	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3
2.5°	551.7	549.6	552.4	547.6	546.9	542.1	539.4	538.0	531.9	523.7	516.2
5°	607.0	598.8	600.8	600.1	596.7	594.7	591.9	588.5	580.3	572.8	563.3
7.5°	616.5	609.7	611.1	611.7	609.7	609.0	608.3	607.0	601.5	594.7	586.5
10°	615.2	608.3	607.7	605.6	603.6	604.2	604.2	604.2	602.9	600.1	597.4
12.5°	694.4	684.8	682.8	668.4	655.4	632.9	618.6	604.9	598.8	599.5	597.4
15°	781.8	781.1	774.2	760.6	738.7	718.3	685.5	660.9	629.5	607.0	597.4
17.5°	821.4	820.7	814.5	802.9	787.2	768.1	744.2	715.5	680.7	645.9	617.2
20°	840.5	845.3	838.4	828.9	813.8	796.1	773.6	747.6	714.8	679.3	645.2
22.5°	843.2	849.3	843.2	836.4	825.5	813.8	794.7	768.1	734.6	700.5	667.1
25°	855.5	857.5	844.6	835.7	825.5	817.3	802.2	779.0	744.9	708.0	675.2
27.5°	882.1	873.2	845.9	833.6	824.1	816.6	802.2	778.3	741.5	703.9	669.8
30°	875.3	871.9	848.0	836.4	828.2	820.7	802.9	772.2	727.8	688.2	652.7
32.5°	847.3	854.1	845.9	841.8	837.7	828.2	802.2	760.6	710.7	670.5	622.7
35°	830.9	839.1	839.8	839.8	835.0	820.7	789.9	743.5	693.7	641.1	576.9
37.5°	814.5	821.4	825.5	828.2	821.4	800.9	762.0	720.3	665.7	596.7	484.1
40°	796.1	800.9	804.3	805.7	795.4	768.8	733.3	686.2	624.7	509.3	432.2
42.5°	770.1	772.9	772.2	771.5	760.6	731.2	697.8	648.6	527.1	454.0	360.5
45°	727.8	725.1	729.2	729.2	714.8	693.0	648.6	553.0	471.8	378.9	232.1
47.5°	564.0	566.0	585.8	617.9	637.7	631.5	571.5	484.1	396.7	248.5	77.2
50°	525.0	523.0	523.7	527.1	529.1	512.1	469.1	409.0	262.2	81.2	5.5
52.5°	352.3	354.4	370.1	406.2	417.8	405.6	364.6	273.1	95.6	5.5	4.8
55°	111.3	118.8	127.7	146.8	180.2	201.4	197.3	97.0	6.1	4.1	4.8
57.5°	4.1	4.1	5.5	9.6	18.4	30.0	31.4	6.1	4.8	4.8	4.8
60°	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.1	4.1	4.1
62.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.1	4.1
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1
67.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	3.4	3.4	3.4
70°	2.0	2.0	2.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7
75°	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0
80°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	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°	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3
2.5°	512.1	503.9	487.5	438.3	387.1	335.9	303.8	295.6
5°	552.4	542.8	519.6	427.4	323.6	234.9	184.3	165.2
7.5°	576.9	565.3	538.0	410.3	251.9	136.6	81.9	65.5
10°	587.9	577.6	546.9	384.4	182.3	64.9	28.7	23.9
12.5°	592.6	584.4	550.3	350.3	118.8	28.7	21.2	20.5
15°	594.7	585.8	548.9	308.6	67.6	20.5	19.8	19.8
17.5°	596.7	586.5	540.7	260.8	37.6	19.1	18.4	19.1
20°	613.1	583.8	526.4	208.9	24.6	17.8	17.8	18.4
22.5°	629.5	583.1	501.1	159.8	19.1	17.1	17.8	17.8
25°	635.0	576.2	469.1	114.0	16.4	16.4	17.1	17.8
27.5°	624.7	556.4	426.0	77.2	14.3	16.4	17.1	17.8
30°	600.8	523.0	374.2	49.2	13.7	15.7	17.1	17.8
32.5°	556.4	456.8	316.1	29.4	13.0	15.7	17.8	17.8
35°	467.7	383.0	250.6	15.0	13.0	15.7	17.8	18.4
37.5°	409.0	319.5	174.8	10.2	13.0	15.7	17.8	18.4
40°	339.3	230.8	73.1	9.6	13.0	15.7	17.8	19.1
42.5°	234.9	100.4	11.6	8.9	12.3	15.7	18.4	19.1
45°	84.7	13.0	5.5	8.9	12.3	15.7	18.4	19.1
47.5°	7.5	4.8	5.5	8.9	12.3	15.7	18.4	19.8
50°	4.8	4.8	4.8	8.2	12.3	15.7	18.4	19.8
52.5°	4.8	4.8	4.8	8.2	11.6	15.7	19.1	19.8
55°	4.8	4.8	4.8	7.5	11.6	15.7	18.4	19.8
57.5°	4.8	4.8	5.5	7.5	11.6	15.0	18.4	19.1
60°	4.8	4.8	4.8	7.5	10.9	14.3	17.8	18.4
62.5°	4.1	4.8	4.8	6.8	10.2	13.7	17.1	17.8
65°	4.1	4.1	4.8	6.1	9.6	13.0	15.7	17.1
67.5°	3.4	4.1	4.1	5.5	8.2	11.6	14.3	15.7
70°	3.4	3.4	3.4	4.8	7.5	10.2	13.7	14.3
72.5°	2.7	3.4	3.4	4.1	6.1	8.9	11.6	13.0
75°	2.7	2.7	2.7	3.4	5.5	8.2	10.2	10.9
77.5°	2.0	2.0	2.7	2.7	4.8	6.1	8.9	9.6
80°	2.0	2.0	2.0	2.7	3.4	5.5	6.8	7.5
82.5°	1.4	1.4	1.4	2.0	2.7	3.4	4.8	5.5
85°	1.4	1.4	1.4	1.4	2.0	2.7	3.4	3.4
87.5°	0.7	0.7	0.7	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)