

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: P1319278

Luminaire Tested: LDSQA3D13R509835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R509835DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

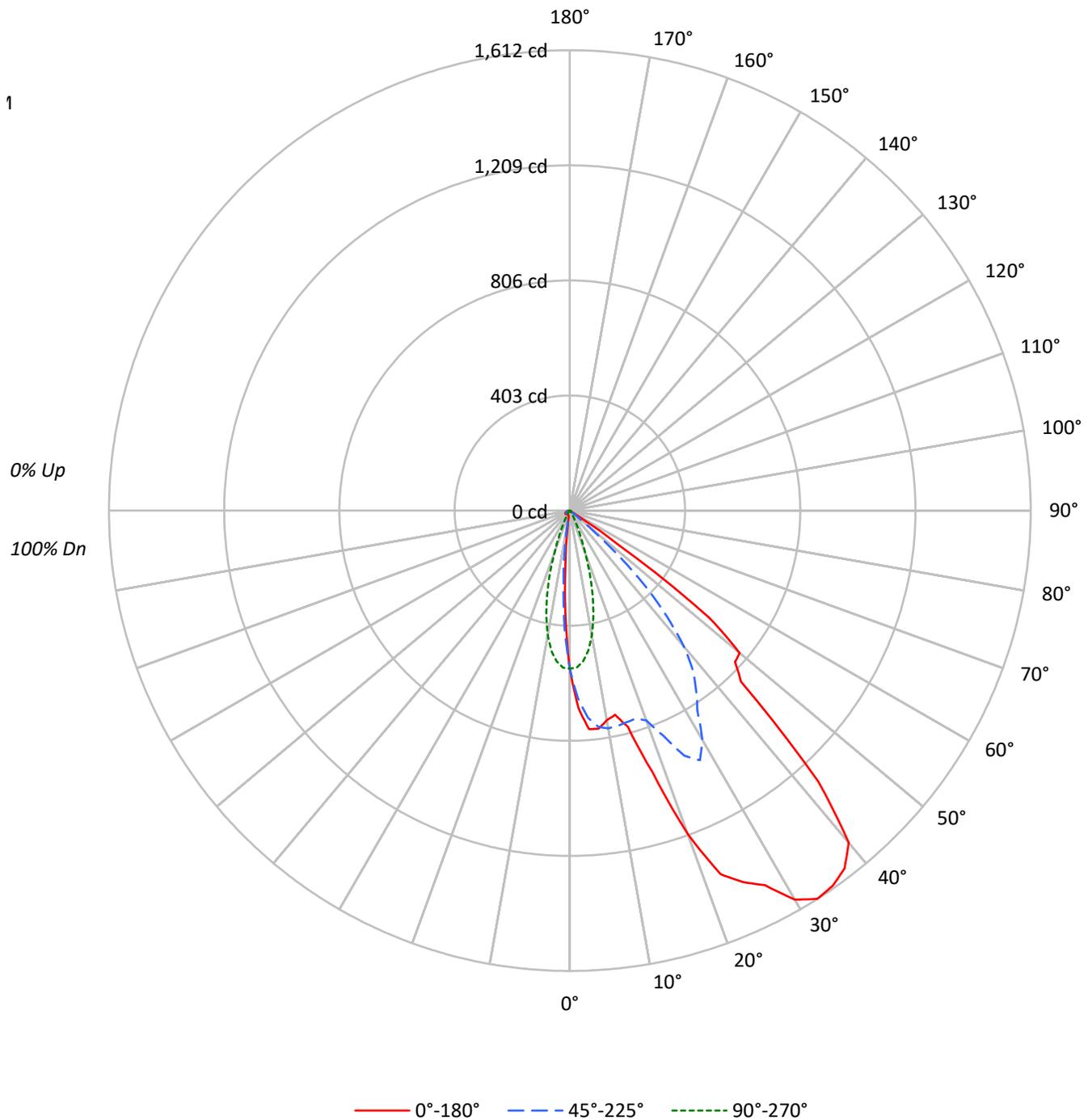
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 860.0 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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 (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	101	102	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	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	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	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	95222	95222	95222	95222	95222
5°	132772	125961	91523	43998	28543
10°	130338	135374	77349	9269	3970
15°	139768	136808	54684	3245	3102
20°	220719	143248	28866	2767	2914
25°	272745	179917	11516	2584	2869
30°	312696	184507	4673	2565	3003
35°	337107	161952	2060	2712	3343
40°	341233	139456	1529	3058	3755
45°	206246	90385	1486	3312	4238
50°	207807	15620	1634	3858	4876
55°	61403	901	1832	4324	5465
60°	1033	1033	1826	4684	5993
65°	937	937	1834	4931	6479
70°	1158	1158	1913	5338	7251
75°	998	998	1996	5523	7586
80°	793	1488	2281	5256	8232
85°	1581	2964	2964	5928	7509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 235571 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	5.2
10°-20°	111.0	12.9
20°-30°	208.0	24.2
30°-40°	248.7	28.9
40°-50°	178.2	20.7
50°-60°	54.9	6.4
60°-70°	7.2	0.8
70°-80°	5.2	0.6
80°-90°	2.1	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°	363.7	42.3
0°-40°	612.4	71.2
0°-60°	845.5	98.3
0°-90°	860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	860.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	553	553	553	553	553	
5°	768	729	529	254	165	71
15°	784	767	307	18	17	251
25°	1435	947	61	14	15	661
35°	1603	770	10	13	16	995
45°	847	371	6	14	17	778
55°	204	3	6	14	18	263
65°	2	2	4	12	16	3
75°	2	2	3	8	11	1
85°	1	2	2	3	4	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°	552.9	552.9	552.9	552.9	552.9	552.9	552.9	552.9	552.9	552.9	552.9
2.5°	691.5	693.0	695.3	689.2	685.5	682.4	677.1	675.6	662.7	657.4	652.1
5°	768.0	766.5	768.0	765.7	764.2	759.7	755.1	747.6	739.2	728.6	716.5
7.5°	770.3	768.8	771.8	771.8	774.8	774.8	774.8	775.6	771.0	763.5	752.9
10°	745.3	745.3	748.3	746.8	752.1	754.4	759.7	768.8	773.3	774.1	771.0
12.5°	732.4	732.4	733.2	730.1	731.7	733.9	740.0	750.6	761.2	771.8	777.9
15°	783.9	785.4	774.8	759.7	748.3	736.2	732.4	739.2	750.6	767.3	780.9
17.5°	958.9	961.1	949.8	913.4	878.6	828.6	783.9	762.0	749.8	763.5	781.6
20°	1204.3	1195.9	1176.3	1137.6	1086.9	1009.6	939.9	869.5	802.1	781.6	787.7
22.5°	1377.7	1374.7	1358.8	1315.6	1271.7	1199.7	1111.1	1012.7	914.9	852.8	820.3
25°	1435.3	1433.0	1418.6	1392.9	1368.6	1314.1	1234.6	1135.4	1033.1	946.8	865.0
27.5°	1478.5	1475.4	1452.7	1423.9	1398.9	1343.6	1270.9	1195.9	1102.0	985.4	859.7
30°	1572.4	1564.0	1532.2	1480.7	1433.0	1356.5	1276.2	1183.1	1055.8	927.8	805.1
32.5°	1611.8	1607.2	1580.0	1538.3	1486.0	1386.1	1264.1	1108.1	940.7	830.1	740.7
35°	1603.4	1596.6	1568.6	1520.9	1457.3	1361.1	1198.2	983.9	847.5	770.3	669.5
37.5°	1578.4	1568.6	1535.3	1479.2	1402.0	1276.2	1063.4	883.1	795.3	708.2	572.6
40°	1517.8	1501.9	1463.3	1405.0	1327.7	1162.6	940.7	822.5	740.7	620.3	464.3
42.5°	1286.1	1277.7	1296.7	1286.8	1218.7	1024.0	853.6	767.3	654.4	501.4	336.3
45°	846.8	861.2	895.3	953.6	967.2	880.9	782.4	676.4	538.5	371.1	193.9
47.5°	783.9	780.9	789.2	800.6	802.9	766.5	677.1	559.0	399.9	212.1	53.8
50°	775.6	771.0	764.2	750.6	721.8	651.4	549.9	407.5	231.0	58.3	3.8
52.5°	612.7	608.2	608.2	588.5	551.4	483.2	379.5	224.2	64.4	3.8	3.0
55°	204.5	218.1	215.9	215.1	231.8	213.6	163.6	57.6	5.3	3.0	3.0
57.5°	3.8	3.8	3.8	6.8	10.6	15.1	9.1	4.5	3.0	3.0	3.0
60°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
62.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0
67.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3
77.5°	0.8	0.8	0.8	0.8	1.5	1.5	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	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
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°	552.9	552.9	552.9	552.9	552.9	552.9	552.9	552.9
2.5°	640.0	629.4	609.0	550.6	486.3	412.8	362.8	356.7
5°	697.6	681.7	648.3	529.4	382.5	254.5	189.4	165.1
7.5°	735.4	714.2	673.3	494.6	278.7	134.1	72.0	57.6
10°	758.2	738.5	686.2	442.3	177.2	53.0	24.2	22.7
12.5°	770.3	751.3	690.8	379.5	100.0	24.2	18.9	18.9
15°	778.6	758.2	683.9	306.7	50.0	18.2	17.4	17.4
17.5°	782.4	757.4	664.2	231.0	26.5	16.7	16.7	16.7
20°	784.7	749.1	627.9	157.5	18.2	15.1	15.9	15.9
22.5°	786.9	728.6	580.2	100.0	14.4	14.4	15.1	15.1
25°	782.4	693.0	512.8	60.6	12.9	13.6	14.4	15.1
27.5°	749.8	639.3	431.0	37.1	11.4	12.9	14.4	15.1
30°	693.8	560.5	336.3	23.5	10.6	12.9	14.4	15.1
32.5°	621.1	470.3	240.1	14.4	10.6	12.9	14.4	15.1
35°	523.4	359.8	156.0	9.8	10.6	12.9	15.1	15.9
37.5°	413.5	251.5	84.1	7.6	10.6	12.9	15.1	15.9
40°	297.7	150.7	30.3	6.8	9.8	13.6	15.9	16.7
42.5°	174.2	56.0	5.3	6.1	9.8	13.6	15.9	16.7
45°	50.0	6.1	3.0	6.1	9.8	13.6	16.7	17.4
47.5°	3.8	2.3	3.0	6.1	9.8	13.6	16.7	18.2
50°	2.3	2.3	2.3	6.1	9.8	14.4	17.4	18.2
52.5°	3.0	3.0	3.0	6.1	9.8	14.4	17.4	18.2
55°	3.0	3.0	3.0	6.1	9.8	14.4	17.4	18.2
57.5°	3.0	3.0	3.0	6.1	9.8	13.6	17.4	18.2
60°	3.0	3.0	3.0	5.3	9.1	13.6	16.7	17.4
62.5°	3.0	3.0	3.0	5.3	9.1	12.9	16.7	16.7
65°	3.0	3.0	3.0	4.5	8.3	12.1	15.1	15.9
67.5°	3.0	3.0	3.0	4.5	7.6	11.4	14.4	15.1
70°	2.3	3.0	3.0	3.8	6.8	10.6	13.6	14.4
72.5°	2.3	2.3	3.0	3.8	6.1	9.1	12.1	12.9
75°	2.3	2.3	2.3	3.0	5.3	8.3	10.6	11.4
77.5°	2.3	2.3	2.3	3.0	4.5	6.8	9.8	9.8
80°	1.5	2.3	2.3	2.3	3.8	5.3	7.6	8.3
82.5°	1.5	1.5	1.5	2.3	3.0	4.5	6.1	6.1
85°	1.5	1.5	1.5	1.5	2.3	3.0	3.8	3.8
87.5°	0.8	1.5	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)