

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: P1323978

Luminaire Tested: LDSQA3D13R659030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R659030D2WDE010 3LSQCA45R 1MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R65 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

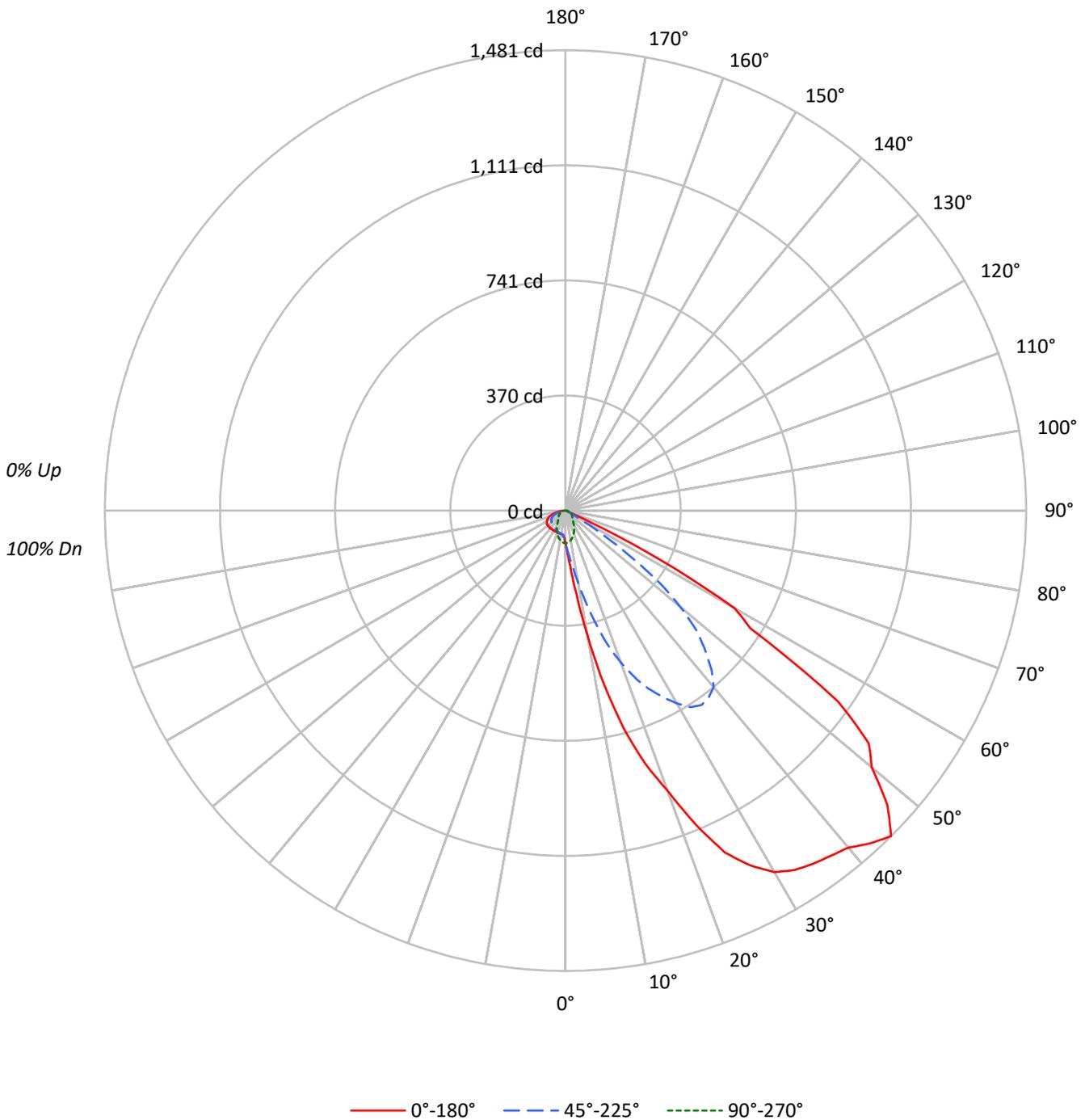
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1074.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17997	17997	17997	17997	17997
5°	31464	25690	17686	14332	13779
10°	71193	41429	16946	13186	13378
15°	129409	66630	15744	13248	13640
20°	175450	95120	14204	13214	13819
25°	230616	120116	12485	12884	14119
30°	267037	142408	10699	12847	14776
35°	291610	160522	9062	13140	15621
40°	318121	166570	7981	13804	16704
45°	360639	154490	7599	14687	18096
50°	344506	128982	7502	15594	19907
55°	321069	72423	7747	16815	21979
60°	216243	15569	7784	17808	23732
65°	33335	3953	7457	18420	25877
70°	3777	3777	7050	18984	27645
75°	3593	3593	6455	18632	27948
80°	3174	4265	6447	17059	27770
85°	2174	4347	6323	16994	25491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 360639 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	1.2
10°-20°	68.3	6.4
20°-30°	160.4	14.9
30°-40°	242.4	22.6
40°-50°	278.6	25.9
50°-60°	221.2	20.6
60°-70°	66.3	6.2
70°-80°	18.0	1.7
80°-90°	6.0	0.6
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°	241.4	22.5
0°-40°	483.8	45.0
0°-60°	983.7	91.6
0°-90°	1074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	182	149	102	83	80	24
15°	726	374	88	74	76	209
25°	1214	632	66	68	74	554
35°	1387	764	43	62	74	870
45°	1481	634	31	60	74	1100
55°	1069	241	26	56	73	881
65°	82	10	18	45	64	183
75°	5	5	10	28	42	6
85°	1	2	3	9	13	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	132.5	133.5	132.5	132.5	131.4	130.3	122.8	114.1	104.5	96.9	91.5
5°	182.0	183.1	179.8	179.8	177.7	174.5	148.6	123.8	102.3	90.5	82.9
7.5°	269.2	273.5	268.1	261.7	249.8	247.7	185.2	133.5	100.1	84.0	77.5
10°	407.1	403.8	398.4	385.5	365.1	355.4	236.9	143.2	96.9	79.7	75.4
12.5°	574.0	565.4	558.9	535.2	507.2	491.0	301.5	151.8	92.6	75.4	74.3
15°	725.8	719.3	704.3	681.7	647.2	634.3	373.7	157.2	88.3	72.1	74.3
17.5°	854.0	847.5	838.9	816.3	780.7	761.3	454.4	160.5	82.9	70.0	73.2
20°	957.3	953.0	941.2	922.9	887.3	869.0	519.0	160.5	77.5	67.8	72.1
22.5°	1090.9	1081.2	1066.1	1039.2	995.0	967.0	580.4	157.2	72.1	65.7	70.0
25°	1213.6	1207.2	1187.8	1155.5	1108.1	1080.1	632.1	150.8	65.7	62.5	67.8
27.5°	1286.9	1282.5	1264.2	1230.9	1178.1	1156.6	675.2	141.1	59.2	59.2	66.8
30°	1342.8	1334.2	1315.9	1283.6	1229.8	1203.9	716.1	129.2	53.8	56.0	64.6
32.5°	1370.8	1367.6	1351.5	1323.5	1270.7	1241.6	749.5	114.1	47.4	53.8	63.5
35°	1387.0	1383.8	1370.8	1343.9	1294.4	1266.4	763.5	100.1	43.1	51.7	62.5
37.5°	1399.9	1396.7	1380.5	1353.6	1304.1	1275.0	757.0	85.1	38.8	49.5	61.4
40°	1415.0	1403.2	1378.4	1351.5	1306.2	1278.2	740.9	71.1	35.5	48.5	61.4
42.5°	1451.6	1410.7	1371.9	1347.2	1304.1	1271.8	694.6	56.0	32.3	46.3	60.3
45°	1480.7	1408.5	1359.0	1339.6	1295.5	1258.9	634.3	40.9	31.2	45.2	60.3
47.5°	1404.2	1360.1	1337.5	1326.7	1279.3	1239.5	571.8	28.0	30.2	44.2	59.2
50°	1285.8	1280.4	1271.8	1272.9	1229.8	1197.5	481.4	19.4	28.0	43.1	58.2
52.5°	1228.7	1222.2	1207.2	1196.4	1153.3	1125.3	381.2	15.1	26.9	42.0	57.1
55°	1069.3	1073.6	1057.5	1063.9	1051.0	1037.0	241.2	14.0	25.8	39.8	56.0
57.5°	704.3	725.8	763.5	808.7	849.6	877.6	130.3	14.0	23.7	38.8	53.8
60°	627.8	622.4	621.3	630.0	648.3	663.3	45.2	12.9	22.6	35.5	51.7
62.5°	343.5	341.4	373.7	428.6	460.9	464.1	12.9	12.9	20.5	33.4	48.5
65°	81.8	85.1	94.8	118.5	140.0	154.0	9.7	11.8	18.3	31.2	45.2
67.5°	12.9	14.0	14.0	17.2	19.4	19.4	8.6	10.8	16.2	28.0	42.0
70°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.7	14.0	24.8	37.7
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	7.5	8.6	11.8	21.5	32.3
75°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.5	9.7	17.2	28.0
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.4	6.5	8.6	14.0	22.6
80°	3.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4	6.5	10.8	17.2
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.2	4.3	5.4	8.6	12.9
85°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.2	3.2	5.4	8.6
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.2	4.3
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):

	157.5°	180°
0°	104.5	104.5
2.5°	88.3	87.2
5°	79.7	79.7
7.5°	76.5	76.5
10°	75.4	76.5
12.5°	75.4	76.5
15°	75.4	76.5
17.5°	75.4	76.5
20°	74.3	75.4
22.5°	73.2	74.3
25°	72.1	74.3
27.5°	71.1	74.3
30°	71.1	74.3
32.5°	71.1	74.3
35°	70.0	74.3
37.5°	70.0	74.3
40°	70.0	74.3
42.5°	70.0	74.3
45°	70.0	74.3
47.5°	70.0	74.3
50°	70.0	74.3
52.5°	68.9	74.3
55°	68.9	73.2
57.5°	66.8	71.1
60°	64.6	68.9
62.5°	62.5	66.8
65°	59.2	63.5
67.5°	56.0	59.2
70°	50.6	54.9
72.5°	45.2	48.5
75°	38.8	42.0
77.5°	32.3	35.5
80°	25.8	28.0
82.5°	18.3	20.5
85°	11.8	12.9
87.5°	5.4	5.4
90°	0.0	0.0

(END OF REPORT)