

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: P1325063

Luminaire Tested: LDSQA3D05R40W2N902750DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R40W2N902750DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

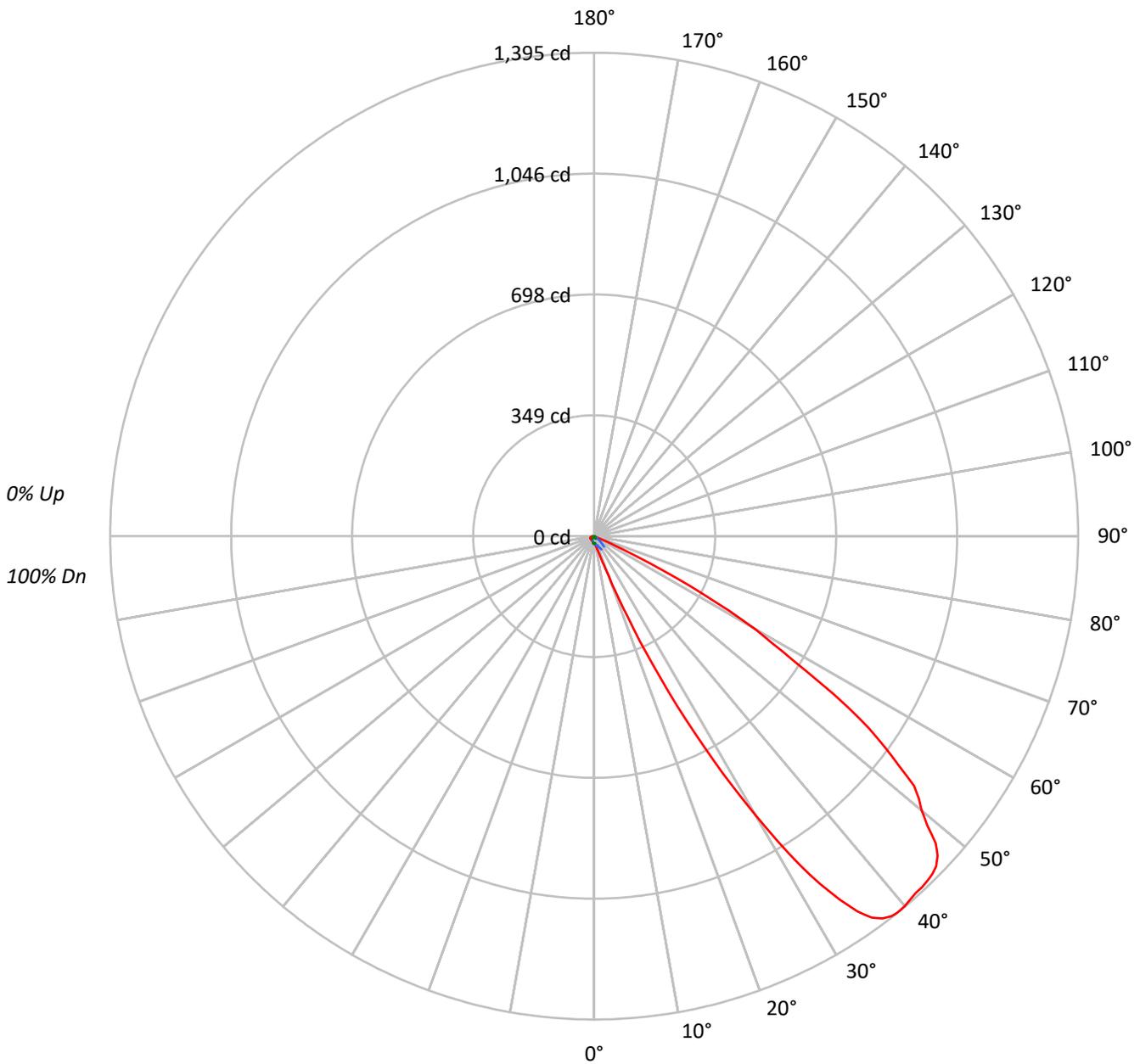
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 431.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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



— 0°-180° - - - 45°-225° ····· 90°-270°



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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	62	62	62	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	37	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	26	26	26	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	23	23	23	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3823	3823	3823	3823	3823
5°	4236	4097	3769	3423	3354
10°	5124	4354	3463	3113	3043
15°	8398	4725	2960	2746	2817
20°	22195	5590	2474	2474	2676
25°	85588	6917	1957	2261	2641
30°	184667	9207	1571	2207	2605
35°	277944	10912	1325	2166	2670
40°	313153	10949	1147	2226	2855
45°	335771	8476	1072	2314	3093
50°	330037	5305	965	2438	3403
55°	290352	2612	961	2732	3813
60°	183796	551	1102	2997	4237
65°	37573	163	1141	3219	4686
70°	806	201	1209	3575	5388
75°	799	532	1331	3926	6055
80°	793	397	1587	4364	7042
85°	790	790	3162	4742	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47°
 Luminance: 341845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	6.8	1.6
20°-30°	33.5	7.8
30°-40°	108.9	25.3
40°-50°	150.1	34.8
50°-60°	104.6	24.3
60°-70°	19.8	4.6
70°-80°	3.6	0.8
80°-90°	1.7	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°	42.4	9.8
0°-40°	151.3	35.1
0°-60°	406.0	94.2
0°-90°	431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	431.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	24	24	22	20	19	2
15°	47	26	17	15	16	17
25°	450	36	10	12	14	232
35°	1322	52	6	10	13	799
45°	1379	35	4	10	13	1048
55°	967	9	3	9	13	826
65°	92	0	3	8	12	163
75°	1	1	2	6	9	1
85°	0	0	2	2	4	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
2.5°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.6	22.2
5°	24.5	24.5	24.5	24.5	24.1	24.1	24.1	23.7	23.7	23.0	21.8
7.5°	26.1	26.1	26.1	26.1	25.7	25.3	24.9	24.9	24.5	22.6	21.0
10°	29.3	29.3	28.9	28.5	28.1	27.3	26.9	26.1	24.9	22.2	19.8
12.5°	35.6	34.8	34.4	33.6	32.5	30.9	29.3	28.1	25.3	21.4	18.6
15°	47.1	46.3	44.7	42.4	40.0	36.8	34.0	31.3	26.5	20.2	16.6
17.5°	67.3	64.9	62.5	58.6	52.6	47.1	41.2	36.0	28.1	19.0	15.0
20°	121.1	119.5	105.3	94.2	76.4	63.7	51.9	43.1	30.5	17.8	13.5
22.5°	249.8	233.1	209.8	171.8	133.8	98.6	71.6	54.2	32.9	16.2	11.9
25°	450.4	424.3	374.0	300.8	222.1	157.1	103.7	70.9	36.4	14.6	10.3
27.5°	682.0	655.5	577.5	476.6	347.9	237.1	148.0	93.8	41.2	13.1	9.1
30°	928.6	906.0	807.1	667.3	490.4	332.1	198.3	117.2	46.3	11.5	7.9
31°	1027.9	999.0	892.2	743.3	557.3	371.3	218.5	127.1	48.3	11.1	7.5
32°	1119.4	1086.5	975.7	816.2	611.5	413.6	240.7	135.8	49.9	10.3	7.1
33°	1198.1	1159.7	1052.9	885.0	671.3	453.2	263.6	144.1	51.1	9.5	6.7
34°	1265.0	1231.8	1117.0	954.3	724.3	491.2	286.2	152.4	51.9	9.1	6.3
35°	1322.0	1291.9	1178.3	1006.9	776.2	528.0	306.8	160.3	51.9	8.3	6.3
36°	1360.4	1334.3	1231.4	1060.8	819.7	559.3	324.2	167.4	51.9	7.5	5.9
37°	1381.4	1356.1	1266.2	1105.1	862.5	590.2	340.0	173.0	51.5	7.1	5.5
38°	1392.1	1369.9	1291.9	1141.1	892.2	612.3	353.9	177.3	51.1	6.3	5.5
39°	1394.8	1376.2	1308.2	1167.3	921.1	634.5	363.8	179.7	49.9	5.9	5.1
40°	1392.9	1376.6	1316.9	1190.6	943.2	651.9	370.9	180.5	48.7	5.1	5.1
41°	1388.9	1376.2	1323.2	1206.8	961.0	663.0	373.6	178.9	47.1	4.4	4.7
42°	1385.3	1371.5	1326.0	1217.9	973.3	668.5	373.3	175.7	44.7	4.0	4.7
43°	1385.3	1369.5	1326.4	1225.0	979.2	668.9	368.5	169.8	41.6	3.6	4.4
44°	1383.0	1368.3	1328.4	1229.8	980.8	665.4	361.0	163.5	38.0	3.2	4.4
45°	1378.6	1363.2	1328.0	1230.2	978.1	656.7	348.7	155.2	34.8	2.4	4.4
46°	1370.3	1356.5	1324.4	1227.4	969.7	644.0	334.1	146.8	31.3	2.0	4.0
47°	1353.7	1343.0	1314.9	1217.9	957.1	625.4	316.7	137.3	28.5	1.6	4.0
48°	1325.2	1317.7	1298.7	1196.9	932.9	602.4	298.0	127.1	25.7	1.6	4.0
49°	1272.9	1267.0	1255.9	1163.3	902.1	574.3	277.9	115.6	23.0	1.2	4.0
50°	1231.8	1225.4	1202.9	1106.7	857.7	538.7	255.7	104.1	19.8	0.8	3.6
51°	1204.5	1194.2	1158.5	1041.0	793.2	491.2	231.6	92.6	16.6	0.8	3.6
52°	1170.0	1154.6	1110.3	982.0	734.2	443.7	205.4	81.1	14.6	0.8	3.6
53°	1098.0	1092.4	1048.5	918.7	675.3	398.2	178.5	71.6	12.7	0.8	3.6
54°	1035.1	1026.7	967.0	830.8	611.1	347.5	150.8	63.3	10.7	0.8	3.6
55°	967.0	950.7	897.7	756.8	535.9	300.8	124.3	54.6	8.7	0.8	3.2
56°	881.1	866.8	809.8	677.6	466.7	253.3	104.1	44.7	6.7	0.8	3.2
57°	776.6	763.5	719.6	580.3	394.6	207.0	84.7	36.0	5.1	0.8	3.2
58°	675.7	661.0	610.7	486.9	318.6	164.3	70.9	29.3	4.0	0.8	3.2
59°	598.1	578.3	513.4	408.9	249.4	124.7	56.2	23.4	2.8	0.8	3.2
60°	533.6	517.3	450.0	340.4	195.5	91.8	41.6	17.8	1.6	0.8	3.2
62.5°	309.1	304.8	244.2	175.3	92.2	42.7	20.6	8.3	0.8	1.2	3.2
65°	92.2	80.4	62.5	37.2	23.7	14.2	7.5	2.8	0.4	1.2	2.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.6	0.8	0.4	1.2	2.8
70°	1.6	1.2	1.2	1.2	1.2	0.8	0.8	0.4	0.4	1.2	2.4
72.5°	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.8	1.2	2.0
75°	1.2	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.8	1.2	2.0
77.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.8	1.2	2.0
80°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	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):

	112.5°	135°	157.5°	180°
0°	22.2	22.2	22.2	22.2
2.5°	21.4	21.0	20.6	20.6
5°	20.6	19.8	19.8	19.4
7.5°	19.4	18.6	18.6	18.6
10°	18.2	17.8	17.8	17.4
12.5°	16.6	16.6	16.6	16.6
15°	15.4	15.4	15.8	15.8
17.5°	13.9	14.2	15.0	15.4
20°	12.7	13.5	14.2	14.6
22.5°	11.9	12.7	13.9	14.2
25°	10.7	11.9	13.5	13.9
27.5°	9.9	11.5	12.7	13.5
30°	9.1	11.1	12.3	13.1
31°	9.1	10.7	12.3	13.1
32°	8.7	10.3	12.3	12.7
33°	8.7	10.3	12.3	12.7
34°	8.3	10.3	11.9	12.7
35°	8.3	10.3	11.9	12.7
36°	7.9	9.9	11.9	12.7
37°	7.9	9.9	11.9	12.7
38°	7.5	9.9	11.9	12.7
39°	7.5	9.9	11.9	12.7
40°	7.5	9.9	11.9	12.7
41°	7.1	9.9	11.9	12.7
42°	7.1	9.9	11.9	12.7
43°	7.1	9.5	11.9	12.7
44°	7.1	9.5	11.9	12.7
45°	6.7	9.5	11.9	12.7
46°	6.7	9.5	11.9	12.7
47°	6.7	9.5	11.9	12.7
48°	6.7	9.5	11.9	12.7
49°	6.7	9.5	11.9	12.7
50°	6.3	9.1	11.9	12.7
51°	6.3	9.1	11.9	12.7
52°	6.3	9.1	11.9	12.7
53°	6.3	9.1	11.9	12.7
54°	5.9	9.1	11.9	12.7
55°	5.9	9.1	11.9	12.7
56°	5.9	9.1	11.9	12.3
57°	5.9	9.1	11.5	12.3
58°	5.9	8.7	11.5	12.3
59°	5.9	8.7	11.5	12.3
60°	5.9	8.7	11.5	12.3
62.5°	5.5	8.7	11.1	11.9
65°	5.1	7.9	11.1	11.5



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	5.1	7.5	10.3	11.1
70°	4.7	7.1	9.9	10.7
72.5°	4.0	6.7	9.1	9.9
75°	3.6	5.9	8.3	9.1
77.5°	3.2	5.1	7.5	7.9
80°	2.8	4.4	6.3	7.1
82.5°	2.0	3.2	5.1	5.5
85°	1.6	2.4	3.6	4.0
87.5°	1.2	1.2	2.0	2.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)