

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: P1325050

Luminaire Tested: LDSQA3D05R40W2N902750DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R40W2N902750DE010 3LSQCA30R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

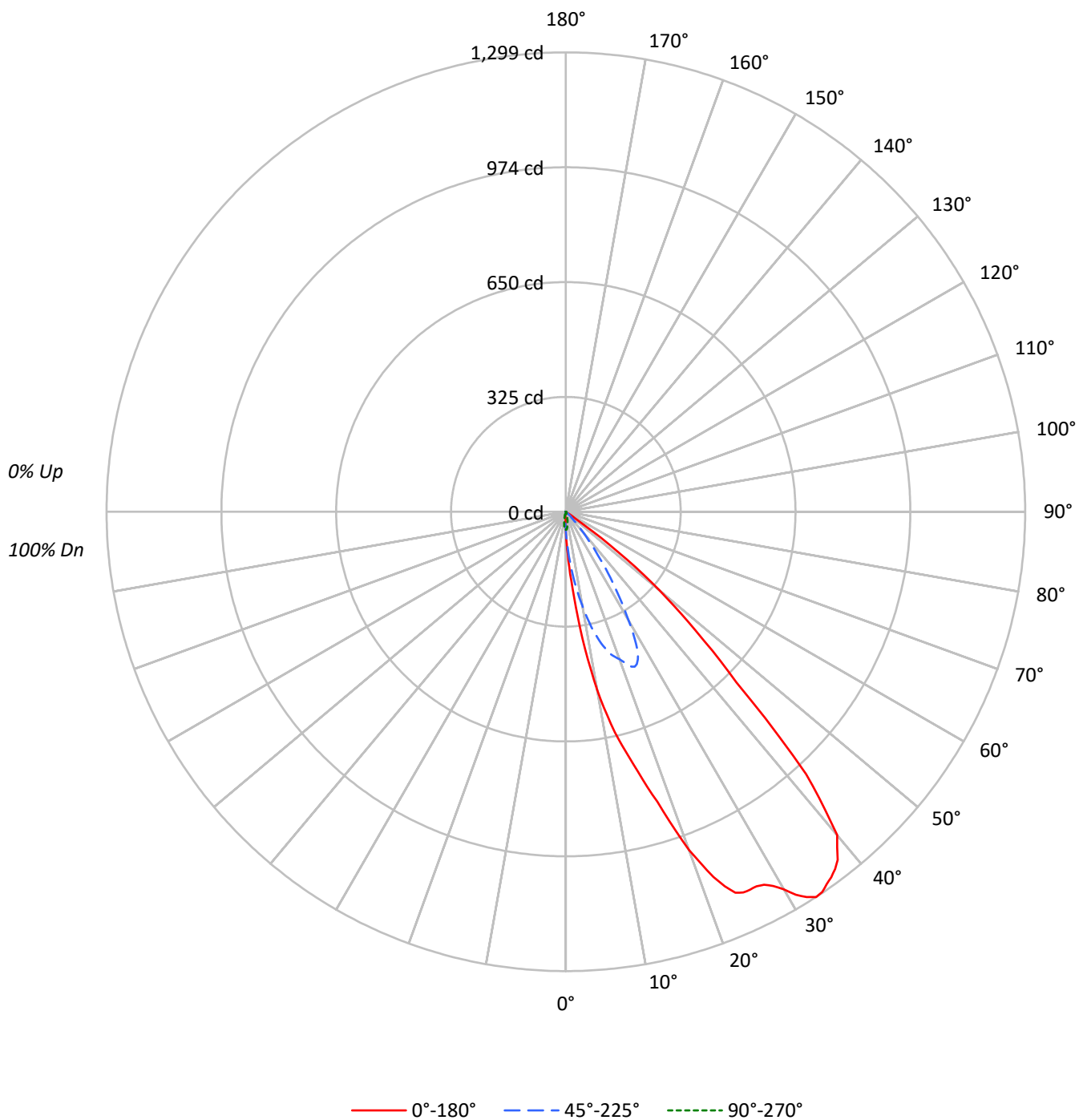
Lumens per Lamp: N/A
Luminaire Lumens: 436.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83	
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74	
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67	
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49	
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40	
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8783	8783	8783	8783	8783
5°	37273	25413	7710	1383	692
10°	89608	47252	4774	140	0
15°	131869	68663	1997	0	0
20°	186410	81393	733	0	0
25°	225771	90339	0	0	0
30°	245142	70677	0	0	0
35°	270312	41376	0	0	0
40°	268301	16794	0	0	0
45°	166156	4896	0	0	0
50°	92517	107	0	0	0
55°	9038	0	0	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	201	403	0	0
75°	0	266	532	0	0
80°	0	397	793	0	0
85°	0	790	1581	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 166936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	2.2
10°-20°	56.2	12.9
20°-30°	128.3	29.4
30°-40°	151.5	34.7
40°-50°	80.9	18.6
50°-60°	8.8	2.0
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.3	0.1
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°	194.0	44.5
0°-40°	345.5	79.2
0°-60°	435.2	99.8
0°-90°	436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	436.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	216	147	45	8	4	30
15°	740	385	11	0	0	220
25°	1188	475	0	0	0	539
35°	1286	197	0	0	0	794
45°	682	20	0	0	0	562
55°	30	0	0	0	0	84
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	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°	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
2.5°	118.9	116.4	118.1	114.8	114.8	107.6	108.0	102.0	93.2	71.1	50.6
5°	215.6	225.3	217.6	207.6	202.0	194.7	185.1	175.1	147.0	88.7	44.6
7.5°	361.0	360.2	347.3	336.5	324.0	304.8	286.7	262.2	209.2	101.6	36.9
10°	512.4	509.5	495.1	485.9	462.2	434.5	397.5	358.2	270.2	106.0	27.3
12.5°	638.4	634.8	622.8	607.1	581.0	546.1	506.3	454.5	334.5	101.2	17.7
15°	739.6	738.8	727.2	705.9	678.6	644.5	599.5	537.2	385.1	88.7	11.2
17.5°	859.7	864.5	843.6	820.7	781.4	733.6	678.6	607.5	422.4	73.5	7.2
20°	1017.1	1010.3	991.0	957.7	919.9	862.5	784.6	683.0	444.1	57.0	4.0
21°	1065.3	1062.5	1042.4	1011.5	969.7	911.5	831.2	721.6	454.1	51.0	3.2
22°	1114.2	1109.4	1093.8	1063.7	1024.3	958.5	870.1	761.3	467.0	44.6	2.0
23°	1150.8	1148.8	1136.7	1107.0	1066.5	1002.6	912.3	798.2	475.8	38.5	1.2
24°	1178.9	1176.5	1164.4	1142.0	1107.0	1040.4	954.8	838.0	479.4	33.3	0.4
25°	1188.1	1189.3	1182.1	1164.4	1135.1	1068.5	986.6	869.3	475.4	28.5	0.0
26°	1188.5	1192.1	1186.9	1176.9	1152.8	1091.0	1016.3	887.8	465.0	24.1	0.0
27°	1188.5	1192.1	1186.9	1179.3	1155.6	1103.8	1032.3	889.8	448.9	20.5	0.0
28°	1194.2	1196.2	1189.3	1180.1	1154.4	1107.8	1036.8	877.7	423.2	17.7	0.0
29°	1209.8	1207.8	1196.6	1184.1	1153.2	1107.8	1023.5	854.9	391.1	14.9	0.0
30°	1232.7	1232.7	1215.0	1195.4	1158.8	1107.4	1002.2	813.5	355.4	12.0	0.0
31°	1263.6	1260.8	1243.1	1213.8	1170.9	1107.4	970.9	767.7	322.4	10.4	0.0
32°	1284.5	1282.9	1266.0	1231.5	1190.5	1107.4	937.2	717.1	286.7	8.4	0.0
33°	1299.0	1295.7	1276.5	1240.7	1202.6	1101.8	899.4	662.9	254.6	6.8	0.0
34°	1296.9	1296.1	1276.1	1239.1	1200.2	1078.5	855.7	602.7	224.9	5.6	0.0
35°	1285.7	1285.7	1261.2	1223.1	1182.9	1044.4	812.3	551.3	196.8	4.0	0.0
36°	1277.3	1274.1	1246.4	1203.8	1154.0	990.6	748.1	499.5	166.6	3.2	0.0
37°	1264.8	1258.8	1227.9	1182.1	1113.0	932.4	680.6	453.3	140.9	2.0	0.0
38°	1248.8	1239.5	1201.8	1156.8	1068.1	865.3	611.9	401.5	117.2	1.2	0.0
39°	1219.5	1211.8	1172.9	1124.3	1014.3	794.6	545.3	352.9	94.8	0.4	0.0
40°	1193.4	1180.1	1135.9	1080.1	951.2	714.7	479.0	305.2	74.7	0.0	0.0
42.5°	1006.2	992.2	982.1	926.7	757.7	513.2	334.5	195.5	38.9	0.0	0.0
45°	682.2	685.4	654.1	616.8	499.9	334.5	209.2	108.8	20.1	0.0	0.0
47.5°	497.5	489.1	446.5	375.8	293.1	195.5	109.2	52.6	8.0	0.0	0.0
50°	345.3	329.3	290.7	237.7	159.4	93.2	48.2	24.5	0.4	0.0	0.0
52.5°	187.5	176.3	149.4	108.4	66.3	35.7	19.3	10.0	0.0	0.0	0.0
55°	30.1	20.9	21.7	18.5	14.5	10.4	6.0	1.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	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):

	112.5°	135°	157.5°	180°
0°	51.0	51.0	51.0	51.0
2.5°	34.1	23.3	17.7	15.3
5°	19.7	8.0	4.4	4.0
7.5°	9.6	2.8	1.6	1.6
10°	4.0	0.8	0.0	0.0
12.5°	1.2	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.4	0.0	0.0	0.0
67.5°	0.4	0.0	0.0	0.0
70°	0.4	0.0	0.0	0.0
72.5°	0.4	0.0	0.0	0.0
75°	0.4	0.0	0.0	0.0
77.5°	0.4	0.0	0.0	0.0
80°	0.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.4	0.0	0.0	0.0
85°	0.4	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)