

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: P1319842

Luminaire Tested: LDSQA3D05R409840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319842
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: LDSQA3D05R409840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

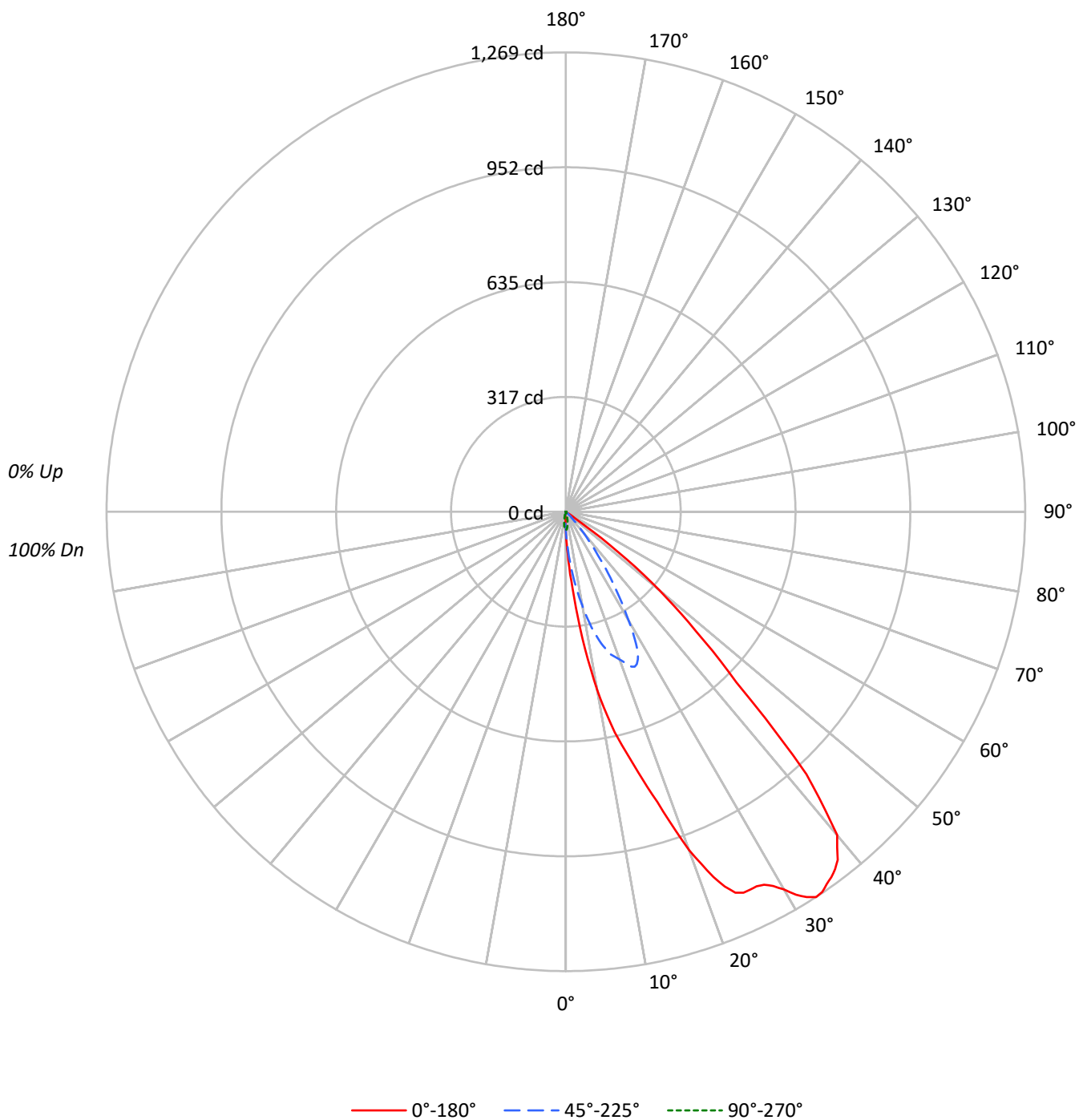
Lumens per Lamp: N/A
Luminaire Lumens: 426.0 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	10
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°	8577	8577	8577	8577	8577
5°	36426	24826	7520	1348	674
10°	87545	46168	4669	140	0
15°	128856	67076	1961	0	0
20°	182139	79523	715	0	0
25°	220602	88267	0	0	0
30°	239514	69046	0	0	0
35°	264110	40409	0	0	0
40°	262141	16412	0	0	0
45°	162357	4774	0	0	0
50°	90400	107	0	0	0
55°	8828	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: 163112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	2.2
10°-20°	54.9	12.9
20°-30°	125.3	29.4
30°-40°	148.0	34.7
40°-50°	79.1	18.6
50°-60°	8.6	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°	189.6	44.5
0°-40°	337.6	79.2
0°-60°	425.2	99.8
0°-90°	426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	426.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	211	144	44	8	4	30
15°	723	376	11	0	0	215
25°	1161	464	0	0	0	527
35°	1256	192	0	0	0	776
45°	667	20	0	0	0	550
55°	29	0	0	0	0	83
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°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2.5°	116.1	113.8	115.3	112.2	112.2	105.1	105.5	99.6	91.0	69.4	49.4
5°	210.7	220.1	212.6	202.8	197.3	190.3	180.9	171.1	143.6	86.7	43.5
7.5°	352.7	351.9	339.4	328.8	316.6	297.8	280.1	256.2	204.4	99.3	36.1
10°	500.6	497.9	483.7	474.7	451.6	424.5	388.4	350.0	264.0	103.6	26.7
12.5°	623.8	620.3	608.5	593.2	567.7	533.6	494.7	444.1	326.8	98.9	17.3
15°	722.7	721.9	710.5	689.7	663.0	629.7	585.7	524.9	376.2	86.7	11.0
17.5°	840.0	844.7	824.3	801.9	763.5	716.8	663.0	593.6	412.7	71.8	7.1
20°	993.8	987.1	968.3	935.7	898.8	842.7	766.6	667.3	433.9	55.7	3.9
21°	1040.8	1038.1	1018.5	988.3	947.5	890.6	812.1	705.0	443.7	49.8	3.1
22°	1088.7	1084.0	1068.7	1039.3	1000.8	936.5	850.2	743.8	456.3	43.5	2.0
23°	1124.4	1122.4	1110.7	1081.6	1042.0	979.6	891.4	779.9	464.9	37.7	1.2
24°	1151.9	1149.5	1137.7	1115.8	1081.6	1016.5	932.9	818.8	468.4	32.6	0.4
25°	1160.9	1162.1	1155.0	1137.7	1109.1	1044.0	963.9	849.4	464.5	27.9	0.0
26°	1161.3	1164.8	1159.7	1149.9	1126.4	1065.9	993.0	867.4	454.3	23.5	0.0
27°	1161.3	1164.8	1159.7	1152.2	1129.1	1078.5	1008.7	869.4	438.6	20.0	0.0
28°	1166.8	1168.7	1162.1	1153.0	1127.9	1082.4	1013.0	857.6	413.5	17.3	0.0
29°	1182.1	1180.1	1169.1	1157.0	1126.7	1082.4	1000.0	835.3	382.1	14.5	0.0
30°	1204.4	1204.4	1187.2	1167.9	1132.2	1082.0	979.2	794.8	347.2	11.8	0.0
31°	1234.6	1231.9	1214.6	1186.0	1144.0	1082.0	948.6	750.1	315.0	10.2	0.0
32°	1255.0	1253.5	1237.0	1203.3	1163.2	1082.0	915.7	700.7	280.1	8.2	0.0
33°	1269.2	1266.0	1247.2	1212.3	1175.0	1076.5	878.8	647.7	248.7	6.7	0.0
34°	1267.2	1266.4	1246.8	1210.7	1172.7	1053.8	836.0	588.9	219.7	5.5	0.0
35°	1256.2	1256.2	1232.3	1195.0	1155.8	1020.4	793.7	538.7	192.2	3.9	0.0
36°	1248.0	1244.8	1217.8	1176.2	1127.5	967.9	730.9	488.0	162.8	3.1	0.0
37°	1235.8	1229.9	1199.7	1155.0	1087.5	911.0	665.0	442.9	137.7	2.0	0.0
38°	1220.1	1211.1	1174.2	1130.3	1043.6	845.5	597.9	392.3	114.6	1.2	0.0
39°	1191.5	1184.0	1146.0	1098.5	991.0	776.4	532.8	344.9	92.6	0.4	0.0
40°	1166.0	1153.0	1109.9	1055.3	929.4	698.3	468.0	298.2	73.0	0.0	0.0
42.5°	983.2	969.4	959.6	905.5	740.3	501.4	326.8	191.1	38.1	0.0	0.0
45°	666.6	669.7	639.1	602.6	488.4	326.8	204.4	106.3	19.6	0.0	0.0
47.5°	486.1	477.8	436.3	367.2	286.4	191.1	106.7	51.4	7.8	0.0	0.0
50°	337.4	321.7	284.0	232.3	155.8	91.0	47.1	23.9	0.4	0.0	0.0
52.5°	183.2	172.2	145.9	105.9	64.7	34.9	18.8	9.8	0.0	0.0	0.0
55°	29.4	20.4	21.2	18.0	14.1	10.2	5.9	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°	49.8	49.8	49.8	49.8
2.5°	33.3	22.8	17.3	14.9
5°	19.2	7.8	4.3	3.9
7.5°	9.4	2.7	1.6	1.6
10°	3.9	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)