

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: P1312444

Luminaire Tested: LDSQA3D09R559050DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R559050DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

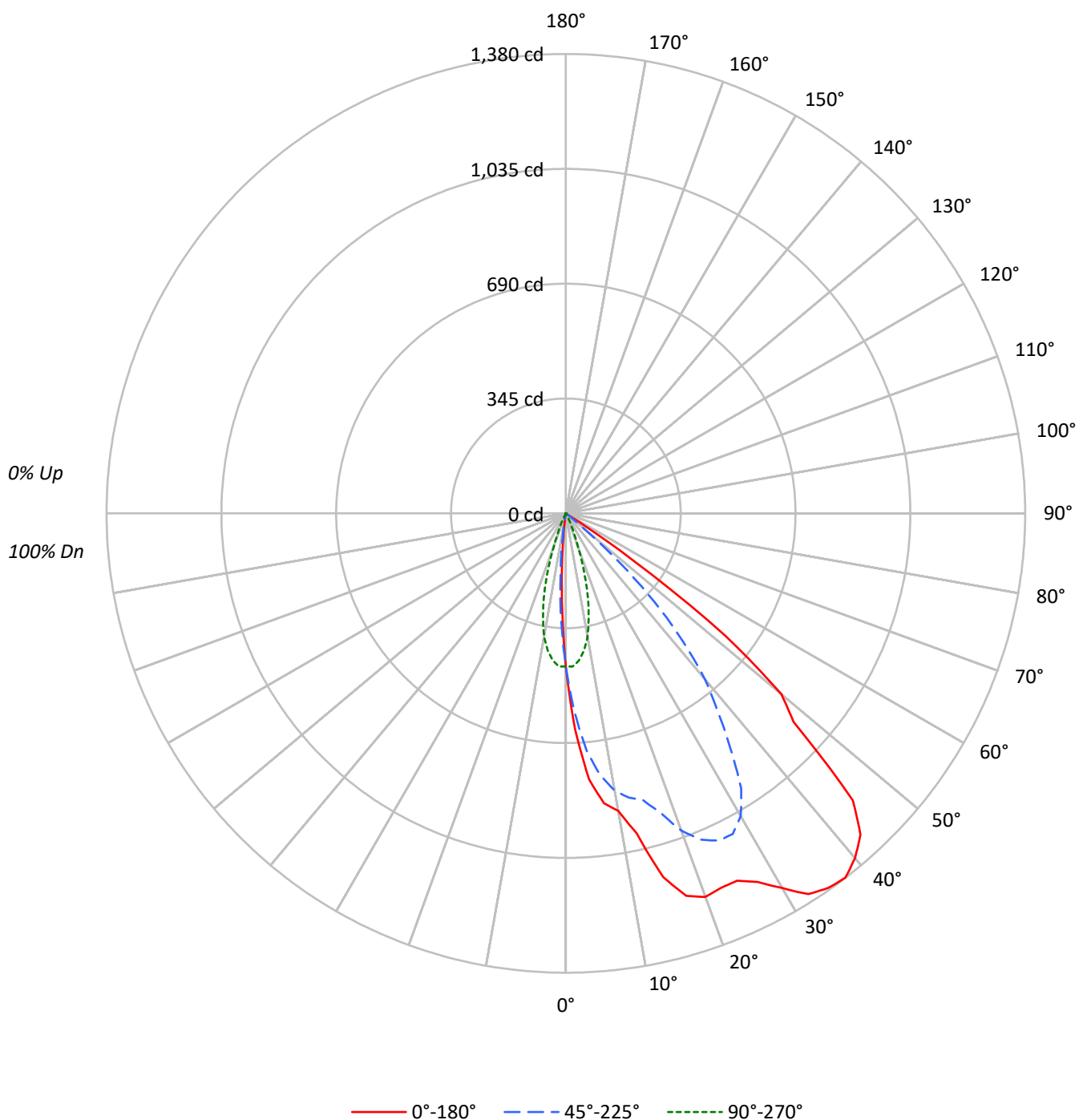
Lumens per Lamp: N/A
Luminaire Lumens: 850.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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			
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
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	97	96	96	94	93	91		
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82		
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73		
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	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°	79102	79102	79102	79102	79102
5°	138650	123592	76776	31896	18360
10°	158686	147931	65650	3498	1259
15°	201673	158792	45002	713	428
20°	224714	185786	19757	0	0
25°	231338	206141	5625	0	0
30°	258446	208888	795	0	0
35°	288856	181378	0	0	0
40°	303845	145999	0	0	0
45°	297070	92212	0	0	0
50°	226214	18836	0	0	0
55°	74104	0	0	0	0
60°	0	0	0	0	0
65°	0	326	326	0	0
70°	0	403	403	0	0
75°	0	532	532	0	0
80°	0	793	1587	793	0
85°	0	1581	1581	1581	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 297070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	4.9
10°-20°	123.0	14.5
20°-30°	200.0	23.5
30°-40°	237.7	28.0
40°-50°	194.4	22.9
50°-60°	51.5	6.1
60°-70°	0.3	0.0
70°-80°	0.5	0.1
80°-90°	0.6	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°	365.0	42.9
0°-40°	602.7	70.9
0°-60°	848.6	99.8
0°-90°	850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	850.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	459	459	459	459	459	
5°	802	715	444	184	106	79
15°	1131	891	252	4	2	316
25°	1217	1085	30	0	0	573
35°	1374	863	0	0	0	854
45°	1220	379	0	0	0	875
55°	247	0	0	0	0	277
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	459.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3
2.5°	651.8	647.0	647.8	645.4	647.8	637.4	626.2	615.9	607.9	596.7	528.8
5°	802.0	794.0	791.6	788.4	785.2	772.4	762.0	749.3	734.1	714.9	590.3
7.5°	877.9	871.5	868.3	869.9	862.7	857.9	844.3	829.9	814.0	793.2	636.6
10°	907.4	901.0	900.2	899.4	898.6	895.4	889.1	876.3	861.9	845.9	663.0
12.5°	984.9	970.5	960.9	949.8	936.2	918.6	904.2	893.0	887.5	874.7	675.0
15°	1131.1	1117.5	1107.1	1092.7	1067.2	1029.6	995.3	951.4	913.0	890.6	670.2
17.5°	1204.6	1198.2	1189.4	1179.8	1162.2	1135.1	1099.9	1053.6	1004.9	941.8	647.0
20°	1226.1	1222.9	1216.6	1212.6	1200.6	1181.4	1157.4	1121.5	1076.0	1013.7	611.1
22.5°	1217.4	1219.7	1222.9	1233.3	1234.9	1221.3	1199.0	1164.6	1118.3	1060.8	556.0
25°	1217.4	1215.8	1215.8	1237.3	1250.9	1244.5	1228.5	1197.4	1150.3	1084.8	488.1
27.5°	1248.5	1238.9	1219.0	1241.3	1263.7	1261.3	1246.9	1210.2	1157.4	1085.6	405.0
30°	1299.6	1278.9	1246.1	1266.9	1287.6	1278.9	1255.7	1208.6	1141.5	1050.4	303.5
32.5°	1356.3	1346.8	1330.0	1343.6	1340.4	1305.2	1263.7	1198.2	1108.7	980.1	204.5
35°	1373.9	1375.5	1364.3	1361.9	1343.6	1307.6	1263.7	1168.6	1040.0	862.7	121.4
37.5°	1379.5	1380.3	1362.7	1340.4	1313.2	1270.9	1218.2	1107.9	913.0	749.3	64.7
40°	1351.5	1350.8	1322.0	1294.8	1264.5	1222.9	1146.3	980.1	792.4	649.4	23.2
42.5°	1310.0	1299.6	1272.5	1238.9	1202.2	1150.3	1030.4	827.5	688.6	520.0	1.6
45°	1219.7	1210.2	1188.6	1152.7	1111.9	1038.4	849.1	710.9	560.0	378.6	0.0
47.5°	927.4	922.6	945.0	949.8	949.0	865.1	708.5	579.9	411.4	220.5	0.0
50°	844.3	837.9	815.6	786.8	735.7	665.4	567.9	429.7	241.2	70.3	0.0
52.5°	606.3	627.0	631.8	610.3	562.3	492.9	391.4	247.6	83.9	0.0	0.0
55°	246.8	234.0	243.6	255.6	265.2	243.6	180.5	87.9	0.8	0.0	0.0
57.5°	0.0	0.8	4.8	11.2	18.4	23.2	24.8	1.6	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	90°	112.5°	135°	157.5°	180°
0°	459.3	459.3	459.3	459.3	459.3
2.5°	460.9	389.8	321.1	283.6	265.2
5°	444.1	297.9	184.5	127.8	106.2
7.5°	416.2	204.5	73.5	30.4	21.6
10°	375.4	117.4	20.0	8.0	7.2
12.5°	317.1	53.5	7.2	5.6	5.6
15°	252.4	18.4	4.0	3.2	2.4
17.5°	177.3	4.8	1.6	0.0	0.0
20°	107.8	0.8	0.0	0.0	0.0
22.5°	59.9	0.0	0.0	0.0	0.0
25°	29.6	0.0	0.0	0.0	0.0
27.5°	12.8	0.0	0.0	0.0	0.0
30°	4.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.0	0.0	0.0
67.5°	0.8	0.8	0.0	0.0	0.0
70°	0.8	0.8	0.0	0.0	0.0
72.5°	0.8	0.8	0.0	0.0	0.0
75°	0.8	0.8	0.0	0.0	0.0
77.5°	1.6	0.8	0.8	0.0	0.0
80°	1.6	0.8	0.8	0.0	0.0
82.5°	1.6	0.8	0.8	0.0	0.0
85°	0.8	0.8	0.8	0.0	0.0
87.5°	1.6	0.8	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)