

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: P1319287

Luminaire Tested: LDSQA3D13R559835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R559835DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

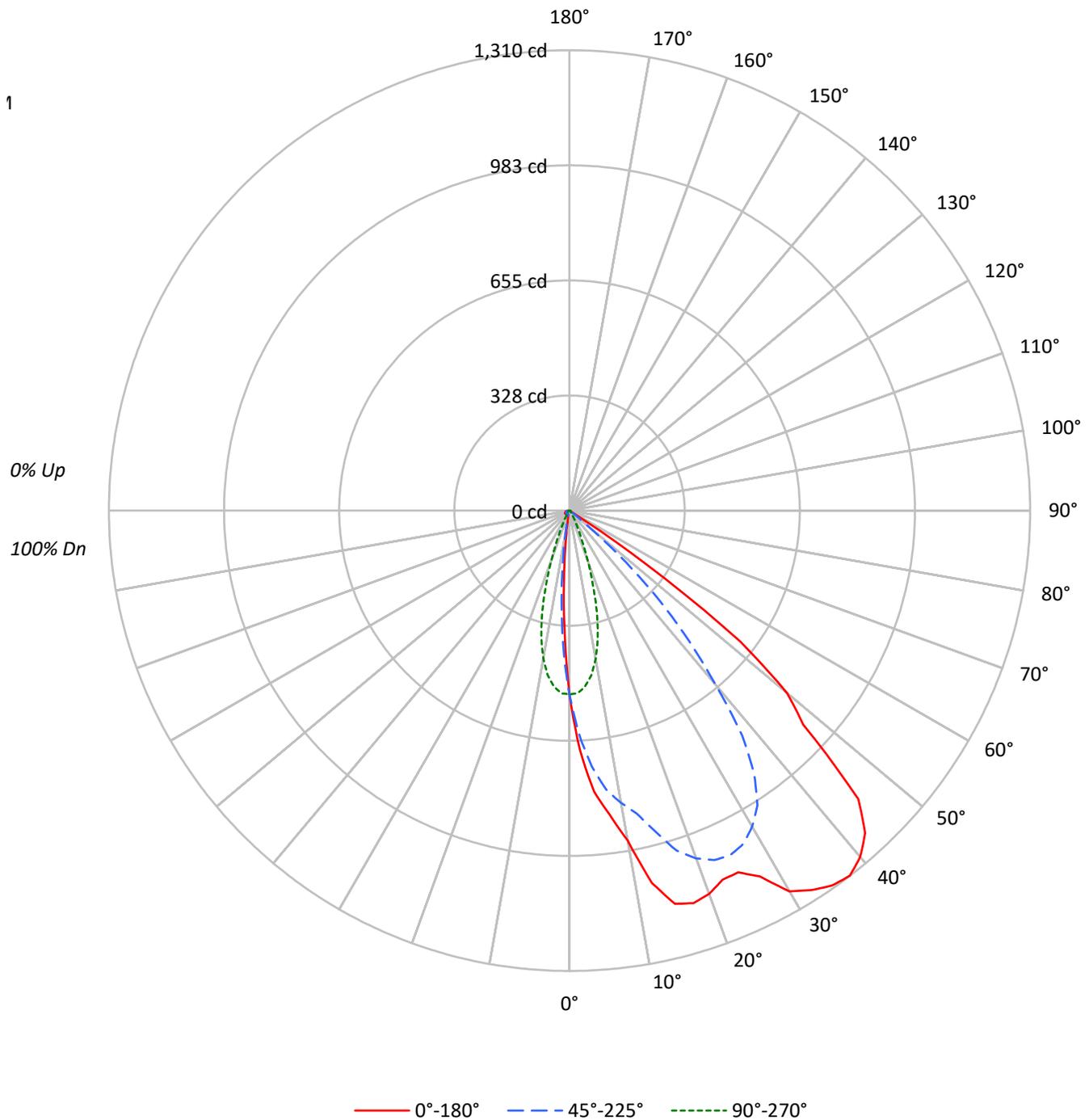
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 872.0 lumens  
Efficiency: N/A  
Efficacy: 60.1 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	90004	90004	90004	90004	90004
5°	138806	126358	86959	44655	29338
10°	166765	147703	74848	11262	4512
15°	206505	168688	53489	3102	2425
20°	212673	192971	27620	2089	2089
25°	215756	205552	11079	1862	2166
30°	248701	206522	4813	1949	2267
35°	273760	192542	2060	2060	2544
40°	289164	144919	1192	2383	2720
45°	282821	88558	1096	2582	3312
50°	216354	18862	1206	3054	3858
55°	79389	691	1351	3423	4324
60°	792	792	1550	3927	4960
65°	937	937	1834	3994	5257
70°	755	1158	1913	4582	6093
75°	532	998	1996	5057	7053
80°	793	1488	2281	5256	7538
85°	0	1581	2964	5928	7509

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 282821 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.0	5.3
10°-20°	131.8	15.1
20°-30°	202.1	23.2
30°-40°	235.5	27.0
40°-50°	188.2	21.6
50°-60°	55.7	6.4
60°-70°	6.0	0.7
70°-80°	4.7	0.5
80°-90°	2.0	0.2
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°	379.9	43.6
0°-40°	615.4	70.6
0°-60°	859.4	98.5
0°-90°	872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	523	523	523	523	523	
5°	803	731	503	258	170	80
15°	1158	946	300	17	14	320
25°	1135	1082	58	10	11	539
35°	1302	916	10	10	12	811
45°	1161	364	4	11	14	837
55°	264	2	4	11	14	280
65°	2	2	4	10	13	2
75°	1	2	3	8	11	1
85°	0	1	2	3	4	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6
2.5°	681.7	681.7	679.4	680.2	678.7	670.4	668.8	658.2	649.1	639.3	631.0
5°	802.9	804.4	802.1	797.6	791.5	785.5	772.6	762.8	749.9	730.9	713.5
7.5°	871.8	870.3	866.5	865.0	861.2	854.4	845.3	834.7	819.6	800.6	780.2
10°	953.6	940.8	937.0	930.9	918.8	905.2	889.3	874.9	862.0	844.6	822.6
12.5°	1085.4	1083.2	1068.0	1056.7	1040.0	1009.7	982.4	950.6	912.7	882.4	853.7
15°	1158.2	1159.7	1152.9	1143.8	1133.2	1108.2	1080.9	1043.8	999.1	946.1	899.1
17.5°	1171.0	1173.3	1169.5	1165.7	1162.7	1148.3	1131.6	1105.1	1064.2	1015.0	945.3
20°	1160.4	1165.0	1165.7	1170.3	1176.3	1170.3	1156.6	1138.5	1104.4	1052.9	986.2
22.5°	1136.9	1145.3	1151.3	1167.2	1183.2	1183.2	1174.8	1160.4	1127.1	1076.3	1008.2
25°	1135.4	1136.9	1139.2	1165.0	1190.0	1195.3	1187.7	1172.5	1136.2	1081.7	1007.4
27.5°	1173.3	1163.5	1148.3	1174.1	1203.6	1208.1	1197.5	1177.1	1133.9	1069.5	981.7
30°	1250.6	1228.6	1196.8	1215.7	1236.2	1230.9	1209.7	1177.1	1118.8	1038.5	933.2
32.5°	1280.1	1268.0	1256.6	1277.1	1280.9	1258.9	1221.0	1172.5	1094.5	994.5	853.7
35°	1302.1	1302.8	1298.3	1302.1	1283.9	1252.8	1211.2	1147.6	1049.1	915.8	748.4
37.5°	1309.6	1311.2	1301.3	1287.7	1260.4	1224.8	1174.8	1102.1	973.3	807.5	589.3
40°	1286.2	1281.6	1265.7	1246.8	1217.2	1180.9	1126.3	1018.0	860.5	644.6	459.8
42.5°	1244.5	1236.9	1218.0	1195.3	1164.2	1118.0	1030.9	899.9	699.1	503.0	321.9
45°	1161.2	1155.9	1132.4	1115.7	1078.6	1018.8	906.7	741.6	540.8	363.6	186.3
47.5°	902.1	902.9	921.1	929.4	916.5	868.8	737.0	563.5	394.6	216.6	62.9
50°	807.5	803.7	785.5	760.5	718.8	647.6	540.8	398.4	233.3	70.4	9.1
52.5°	612.8	612.8	603.7	590.8	546.9	478.0	365.9	220.4	81.8	12.1	2.3
55°	264.4	250.7	258.3	272.7	261.3	227.2	171.2	65.9	14.4	2.3	2.3
57.5°	3.8	9.1	13.6	22.0	29.5	35.6	18.9	6.8	2.3	2.3	2.3
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
62.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
67.5°	1.5	1.5	1.5	2.3	1.5	2.3	2.3	2.3	2.3	2.3	2.3
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6
2.5°	618.8	606.0	584.8	520.4	453.7	392.4	348.4	331.8
5°	693.8	670.4	634.8	503.0	370.4	258.3	194.7	169.7
7.5°	752.9	722.6	671.1	472.7	271.9	137.9	82.6	65.1
10°	792.3	759.0	691.6	428.0	180.3	64.4	31.1	25.8
12.5°	821.1	779.4	699.1	370.4	106.0	29.5	16.7	15.1
15°	842.3	788.5	690.0	300.0	58.3	17.4	13.6	13.6
17.5°	871.8	793.1	668.1	221.2	33.3	12.9	12.9	12.9
20°	894.6	793.1	626.4	150.7	20.5	11.4	11.4	11.4
22.5°	905.9	780.9	575.7	95.4	14.4	10.6	11.4	11.4
25°	894.6	751.4	510.5	58.3	11.4	9.8	10.6	11.4
27.5°	852.9	692.3	423.4	37.1	9.1	9.8	10.6	11.4
30°	783.2	606.7	324.9	24.2	8.3	9.8	10.6	11.4
32.5°	684.7	479.5	210.6	15.9	7.6	9.8	10.6	11.4
35°	534.8	339.3	127.3	9.8	7.6	9.8	11.4	12.1
37.5°	400.7	226.5	68.9	6.1	7.6	9.8	11.4	12.1
40°	278.0	131.8	29.5	5.3	7.6	10.6	12.1	12.1
42.5°	161.3	52.3	7.6	4.5	7.6	10.6	12.1	12.9
45°	59.1	10.6	2.3	4.5	8.3	10.6	12.1	13.6
47.5°	8.3	2.3	2.3	4.5	8.3	10.6	12.9	13.6
50°	2.3	2.3	2.3	4.5	8.3	11.4	13.6	14.4
52.5°	2.3	2.3	2.3	4.5	8.3	11.4	13.6	14.4
55°	2.3	2.3	2.3	4.5	8.3	11.4	13.6	14.4
57.5°	2.3	2.3	2.3	4.5	8.3	11.4	13.6	14.4
60°	2.3	2.3	2.3	4.5	7.6	11.4	13.6	14.4
62.5°	2.3	2.3	2.3	4.5	7.6	10.6	12.9	13.6
65°	2.3	2.3	2.3	4.5	6.8	9.8	12.9	12.9
67.5°	2.3	2.3	2.3	3.8	6.8	9.8	12.1	12.9
70°	2.3	2.3	2.3	3.8	6.1	9.1	11.4	12.1
72.5°	2.3	2.3	2.3	3.0	5.3	8.3	10.6	11.4
75°	1.5	2.3	2.3	3.0	5.3	7.6	9.8	10.6
77.5°	1.5	2.3	2.3	2.3	4.5	6.1	8.3	9.1
80°	1.5	1.5	2.3	2.3	3.8	5.3	6.8	7.6
82.5°	1.5	1.5	1.5	2.3	3.0	3.8	5.3	5.3
85°	1.5	1.5	1.5	1.5	2.3	3.0	3.8	3.8
87.5°	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)