

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: P1319298

Luminaire Tested: LDSQA3D13R609835DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

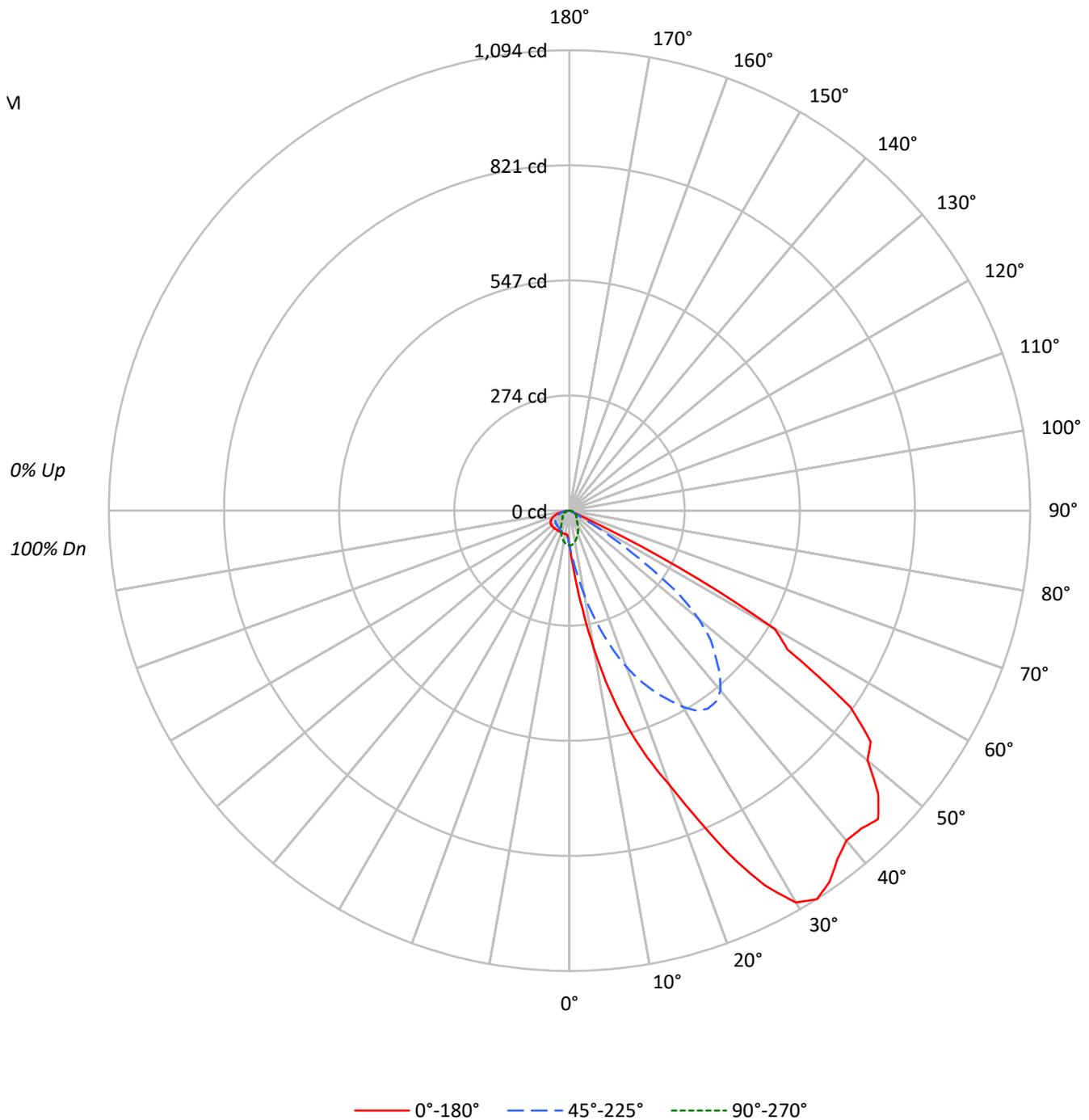
Test Method: LM-79-2019  
Report Number: P1319298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R609835DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 833.0 lumens  
Efficiency: N/A  
Efficacy: 57.4 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
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 (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	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	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	24	22

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

	0°	45°	90°	135°	180°
0°	14208	14208	14208	14208	14208
5°	28007	21869	14003	10598	10079
10°	57868	35623	13116	9671	9793
15°	94641	53472	11750	9717	9985
20°	126973	72449	10538	9714	10135
25°	171803	89940	9216	9634	10508
30°	213820	107069	7676	9645	10997
35°	226371	120681	6518	9860	11458
40°	229992	125472	5958	10207	12433
45°	252474	119515	5724	10887	13469
50°	247515	107119	5680	11575	14817
55°	244653	65697	5675	12491	16364
60°	194060	15638	5993	13296	17739
65°	12348	2771	5868	13570	19112
70°	2669	3072	5740	14099	20192
75°	2529	2994	5057	13575	20628
80°	2281	2975	5256	13488	19538
85°	1581	2964	5928	12054	19365

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 266498 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.3	1.2
10°-20°	51.9	6.2
20°-30°	120.5	14.5
30°-40°	187.2	22.5
40°-50°	213.4	25.6
50°-60°	179.7	21.6
60°-70°	52.1	6.3
70°-80°	13.4	1.6
80°-90°	4.5	0.5
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°	182.7	21.9
0°-40°	369.9	44.4
0°-60°	763.0	91.6
0°-90°	833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	82	82	82	82	82	
5°	162	126	81	61	58	21
15°	531	300	66	54	56	154
25°	904	473	48	51	55	420
35°	1077	574	31	47	54	669
45°	1037	491	24	45	55	779
55°	815	219	19	42	54	686
65°	30	7	14	33	47	150
75°	4	4	8	20	31	4
85°	1	2	3	6	10	1
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°	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
2.5°	111.3	110.6	110.6	109.8	109.0	108.3	106.0	105.3	100.7	91.6	82.5
5°	162.0	161.3	159.0	158.3	154.5	149.2	143.9	138.6	126.5	100.7	81.0
7.5°	234.7	236.2	234.7	226.4	221.1	212.8	196.9	185.5	161.3	109.8	78.0
10°	330.9	330.9	328.6	315.8	304.4	288.5	268.1	248.4	203.7	118.1	75.0
12.5°	435.4	437.7	426.3	415.7	395.3	375.6	347.6	318.0	252.2	124.9	71.2
15°	530.8	529.3	517.9	504.3	483.1	455.8	426.3	388.4	299.9	129.5	65.9
17.5°	615.6	612.6	602.7	587.6	561.8	531.6	493.7	452.8	349.1	133.3	62.1
20°	692.8	682.2	670.9	655.0	630.0	598.2	558.8	512.6	395.3	133.3	57.5
22.5°	790.5	779.9	764.0	739.8	706.5	667.1	620.9	568.7	436.2	130.2	53.0
25°	904.1	895.8	868.5	837.5	794.3	747.4	693.6	623.2	473.3	125.7	48.5
27.5°	1003.3	994.2	967.0	921.5	869.3	813.2	756.5	684.5	505.8	117.4	43.2
30°	1075.2	1063.9	1042.7	999.5	935.9	867.8	800.4	731.5	538.4	107.5	38.6
32.5°	1094.2	1092.7	1076.7	1044.9	988.2	913.2	832.9	758.0	564.1	94.7	34.8
35°	1076.7	1079.0	1076.0	1060.1	1018.4	945.0	854.1	772.4	574.0	81.8	31.0
37.5°	1044.9	1048.0	1053.3	1055.5	1029.0	963.9	866.2	778.4	571.7	68.9	28.8
40°	1023.0	1021.5	1021.5	1036.6	1031.3	972.3	867.8	773.9	558.1	55.3	26.5
42.5°	1025.3	1008.6	997.2	1021.5	1029.0	968.5	857.9	761.8	528.5	42.4	24.2
45°	1036.6	1001.0	981.3	1012.4	1024.5	955.6	839.7	743.6	490.7	29.5	23.5
47.5°	994.2	970.7	967.7	1011.6	1016.2	933.6	811.7	714.8	454.3	20.4	22.0
50°	923.8	920.0	935.9	981.3	982.1	897.3	779.9	662.6	399.8	14.4	21.2
52.5°	901.8	904.1	918.5	942.0	920.0	836.0	722.4	618.6	330.9	11.4	20.4
55°	814.8	818.5	832.2	846.6	830.7	761.0	652.7	565.6	218.8	10.6	18.9
57.5°	613.3	623.2	648.2	661.0	662.6	620.2	591.4	487.6	123.4	10.6	18.2
60°	563.4	550.5	539.1	512.6	488.4	483.1	486.1	365.7	45.4	9.8	17.4
62.5°	294.6	288.5	305.9	317.3	320.3	337.0	315.0	193.1	9.8	9.8	15.9
65°	30.3	30.3	37.1	49.2	81.8	109.0	103.7	56.0	6.8	9.1	14.4
67.5°	9.1	9.1	9.1	10.6	13.6	13.6	11.4	8.3	6.8	8.3	12.9
70°	5.3	5.3	5.3	5.3	5.3	5.3	6.1	5.3	6.1	7.6	11.4
72.5°	4.5	4.5	4.5	4.5	5.3	5.3	5.3	5.3	5.3	6.8	9.8
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.5	4.5	5.3	7.6
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.8	3.8	3.8	4.5	6.1
80°	2.3	2.3	2.3	2.3	2.3	3.0	3.0	3.0	3.0	3.8	5.3
82.5°	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3	2.3	3.0	3.8
85°	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3
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°	82.5	82.5	82.5	82.5
2.5°	75.0	69.7	66.6	65.1
5°	68.1	61.3	59.1	58.3
7.5°	62.1	57.5	56.8	56.8
10°	58.3	55.3	56.0	56.0
12.5°	56.0	55.3	56.0	56.8
15°	53.8	54.5	56.0	56.0
17.5°	52.2	53.8	55.3	56.0
20°	50.0	53.0	55.3	55.3
22.5°	48.5	52.2	54.5	55.3
25°	46.9	50.7	53.8	55.3
27.5°	44.7	50.0	53.8	54.5
30°	42.4	48.5	53.0	55.3
32.5°	40.1	47.7	53.0	54.5
35°	38.6	46.9	53.0	54.5
37.5°	37.1	46.2	53.0	55.3
40°	36.3	45.4	52.2	55.3
42.5°	34.8	45.4	52.2	55.3
45°	34.1	44.7	52.2	55.3
47.5°	33.3	43.9	52.2	55.3
50°	31.8	43.2	51.5	55.3
52.5°	31.0	42.4	51.5	55.3
55°	29.5	41.6	50.7	54.5
57.5°	28.8	40.1	50.0	53.0
60°	27.3	38.6	48.5	51.5
62.5°	25.0	36.3	46.2	50.0
65°	22.7	33.3	43.9	46.9
67.5°	20.4	31.0	40.9	43.9
70°	18.2	28.0	37.1	40.1
72.5°	15.9	24.2	33.3	35.6
75°	13.6	20.4	28.0	31.0
77.5°	10.6	16.7	23.5	25.7
80°	8.3	13.6	18.2	19.7
82.5°	6.8	9.8	13.6	14.4
85°	4.5	6.1	8.3	9.8
87.5°	2.3	3.0	3.8	4.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)