

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: P1315710

Luminaire Tested: LDSQA3D13R709735DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

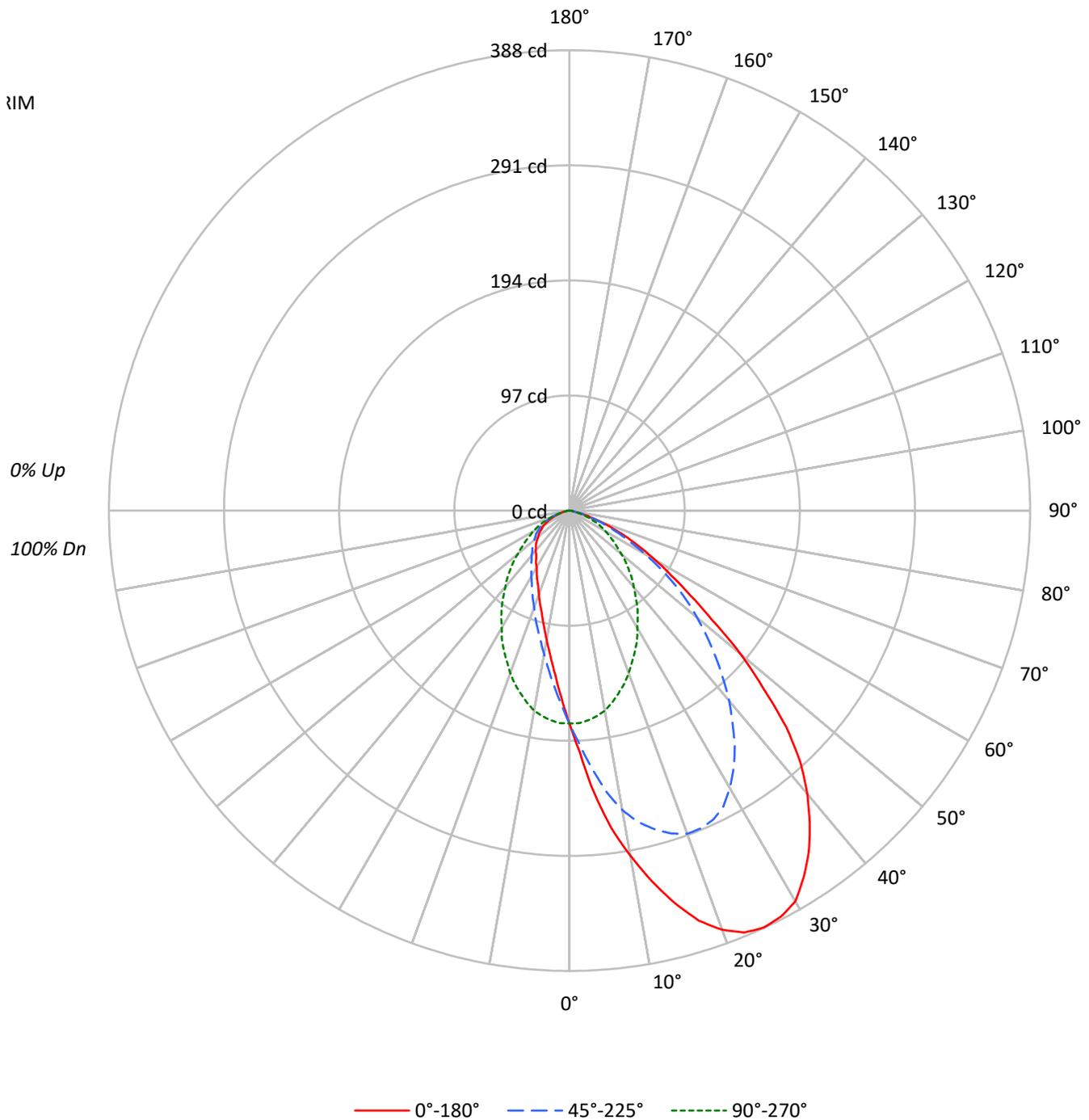
Test Method: LM-79-2019  
Report Number: P1315710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709735DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 438.0 lumens  
Efficiency: N/A  
Efficacy: 30.0 lumens/watt  
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.6  
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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	84	81	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	68	64	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	57	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	44	39	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	41	36	32	30

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

	0°	45°	90°	135°	180°
0°	30880	30880	30880	30880	30880
5°	41336	37740	30686	25673	23961
10°	51642	44822	29939	21545	19324
15°	61049	49585	28421	18418	15993
20°	68893	53113	26722	15927	13782
25°	73654	54557	24779	14119	12219
30°	75648	53674	22691	12787	10977
35°	73880	51026	20940	11816	10281
40°	70054	47032	18930	11196	9982
45°	62863	42355	17195	10814	9718
50°	50478	37617	15299	10423	9217
55°	37262	32368	13602	10329	8978
60°	28692	25282	12159	9989	8749
65°	21761	18827	10718	9210	7743
70°	14603	13243	8208	8208	6395
75°	7852	7852	5456	5456	4791
80°	1785	3570	2678	3570	4463
85°	0	1778	1778	3557	3557

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 62863 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.7	4.0
10°-20°	53.8	12.3
20°-30°	82.9	18.9
30°-40°	94.0	21.5
40°-50°	85.1	19.4
50°-60°	59.5	13.6
60°-70°	32.7	7.5
70°-80°	10.9	2.5
80°-90°	1.4	0.3
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°	154.3	35.2
0°-40°	248.3	56.7
0°-60°	392.9	89.7
0°-90°	438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	179	179	179	179	179	
5°	239	218	178	148	139	25
15°	342	278	159	103	90	98
25°	388	287	130	74	64	178
35°	351	243	100	56	49	218
45°	258	174	71	44	40	196
55°	124	108	45	34	30	114
65°	53	46	26	23	19	53
75°	12	12	8	8	7	14
85°	0	1	1	2	2	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°	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3
2.5°	204.7	206.5	207.4	205.6	204.7	203.8	202.0	201.1	199.3	197.4	196.5
5°	239.1	239.1	239.1	237.3	234.6	232.8	229.1	226.4	221.9	218.3	214.7
7.5°	269.9	269.9	269.0	266.3	264.5	259.9	255.4	251.8	244.5	239.1	231.9
10°	295.3	295.3	294.4	289.8	287.1	281.7	277.1	270.8	263.6	256.3	248.2
12.5°	319.7	319.7	316.1	312.5	307.0	299.8	293.4	287.1	277.1	269.0	259.0
15°	342.4	342.4	340.5	334.2	327.0	318.8	309.8	300.7	288.9	278.1	267.2
17.5°	362.3	361.4	358.7	351.4	344.2	334.2	323.3	312.5	298.0	285.3	271.7
20°	375.9	375.9	372.2	364.1	355.9	345.1	333.3	320.6	305.2	289.8	273.5
22.5°	384.9	384.0	380.4	372.2	362.3	351.4	337.8	324.2	307.0	289.8	272.6
25°	387.6	386.7	383.1	374.1	364.1	352.3	337.8	323.3	305.2	287.1	268.1
27.5°	385.8	384.9	381.3	371.3	361.4	347.8	333.3	317.9	299.8	280.8	261.7
30°	380.4	377.7	374.1	365.0	354.1	340.5	325.1	307.9	289.8	269.9	250.9
32.5°	366.8	366.8	362.3	353.2	342.4	327.9	312.5	296.2	276.2	257.2	237.3
35°	351.4	350.5	346.9	336.9	327.0	313.4	298.0	280.8	261.7	242.7	223.7
37.5°	332.4	331.5	327.9	318.8	307.9	295.3	279.0	262.7	244.5	225.5	208.3
40°	311.6	309.8	305.2	298.0	288.9	274.4	259.9	243.6	226.4	209.2	192.0
42.5°	288.0	286.2	282.6	277.1	266.3	253.6	240.0	224.6	208.3	191.1	178.4
45°	258.1	258.1	256.3	250.9	242.7	232.8	218.3	204.7	189.3	173.9	160.3
47.5°	221.0	222.8	221.9	219.2	215.6	206.5	196.5	184.8	170.3	156.7	144.0
50°	188.4	189.3	190.2	188.4	185.7	179.3	173.0	165.7	153.1	140.4	128.6
52.5°	151.3	154.0	154.0	154.9	154.9	153.1	151.3	143.1	136.8	124.1	113.2
55°	124.1	124.1	124.1	125.9	126.8	127.7	125.9	124.1	116.8	107.8	97.8
57.5°	101.4	101.4	103.3	102.3	102.3	104.2	104.2	103.3	98.7	90.6	81.5
60°	83.3	83.3	83.3	83.3	84.2	84.2	84.2	84.2	80.6	73.4	66.1
62.5°	67.0	67.0	67.0	67.9	67.9	67.9	68.8	67.9	64.3	58.9	52.5
65°	53.4	52.5	53.4	53.4	54.3	54.3	54.3	53.4	49.8	46.2	41.7
67.5°	39.9	40.8	40.8	40.8	41.7	42.6	41.7	40.8	38.0	34.4	32.6
70°	29.0	29.9	29.9	29.9	30.8	31.7	30.8	29.9	28.1	26.3	24.5
72.5°	19.0	19.9	19.9	20.8	21.7	21.7	20.8	20.8	19.9	18.1	17.2
75°	11.8	11.8	12.7	12.7	13.6	13.6	13.6	12.7	12.7	11.8	11.8
77.5°	5.4	5.4	6.3	6.3	6.3	7.2	7.2	7.2	7.2	7.2	6.3
80°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.6	3.6	3.6
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	179.3	179.3	179.3	179.3	179.3	179.3	179.3	179.3
2.5°	194.7	192.0	188.4	179.3	170.3	163.0	158.5	157.6
5°	210.1	205.6	197.4	177.5	161.2	148.5	141.3	138.6
7.5°	225.5	217.4	205.6	174.8	150.3	134.9	126.8	123.2
10°	238.2	228.2	212.8	171.2	141.3	123.2	113.2	110.5
12.5°	248.2	236.4	217.4	165.7	132.2	112.3	102.3	99.6
15°	254.5	241.8	220.1	159.4	123.2	103.3	93.3	89.7
17.5°	257.2	241.8	219.2	153.1	115.0	95.1	85.1	82.4
20°	257.2	240.0	216.5	145.8	106.9	86.9	77.9	75.2
22.5°	254.5	236.4	210.1	137.7	99.6	80.6	71.6	68.8
25°	249.1	229.1	202.9	130.4	92.4	74.3	66.1	64.3
27.5°	240.9	221.0	193.8	123.2	86.0	68.8	61.6	59.8
30°	231.0	211.0	183.9	114.1	79.7	64.3	58.0	55.2
32.5°	218.3	199.3	173.0	106.9	74.3	59.8	54.3	52.5
35°	204.7	187.5	161.2	99.6	68.8	56.2	50.7	48.9
37.5°	191.1	173.0	151.3	91.5	64.3	52.5	48.0	46.2
40°	176.6	163.0	140.4	84.2	60.7	49.8	45.3	44.4
42.5°	162.1	147.6	125.0	77.9	56.2	46.2	42.6	41.7
45°	144.9	131.3	113.2	70.6	52.5	44.4	40.8	39.9
47.5°	130.4	117.7	101.4	64.3	48.9	41.7	38.0	37.1
50°	116.8	104.2	88.8	57.1	45.3	38.9	36.2	34.4
52.5°	101.4	90.6	77.0	50.7	41.7	36.2	33.5	32.6
55°	87.9	77.0	64.3	45.3	38.0	34.4	30.8	29.9
57.5°	72.5	63.4	54.3	39.9	34.4	30.8	29.0	27.2
60°	58.9	52.5	46.2	35.3	30.8	29.0	26.3	25.4
62.5°	48.0	43.5	38.9	30.8	27.2	25.4	23.5	21.7
65°	38.0	35.3	31.7	26.3	23.5	22.6	20.8	19.0
67.5°	29.9	28.1	25.4	20.8	19.9	19.0	17.2	15.4
70°	22.6	21.7	19.9	16.3	15.4	16.3	14.5	12.7
72.5°	16.3	15.4	14.5	11.8	11.8	11.8	10.9	9.1
75°	10.9	10.0	9.1	8.2	8.2	8.2	8.2	7.2
77.5°	6.3	6.3	5.4	4.5	5.4	5.4	6.3	6.3
80°	2.7	2.7	2.7	2.7	3.6	3.6	4.5	4.5
82.5°	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)