

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: P1312805

Luminaire Tested: LDSQA3D17R709050DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

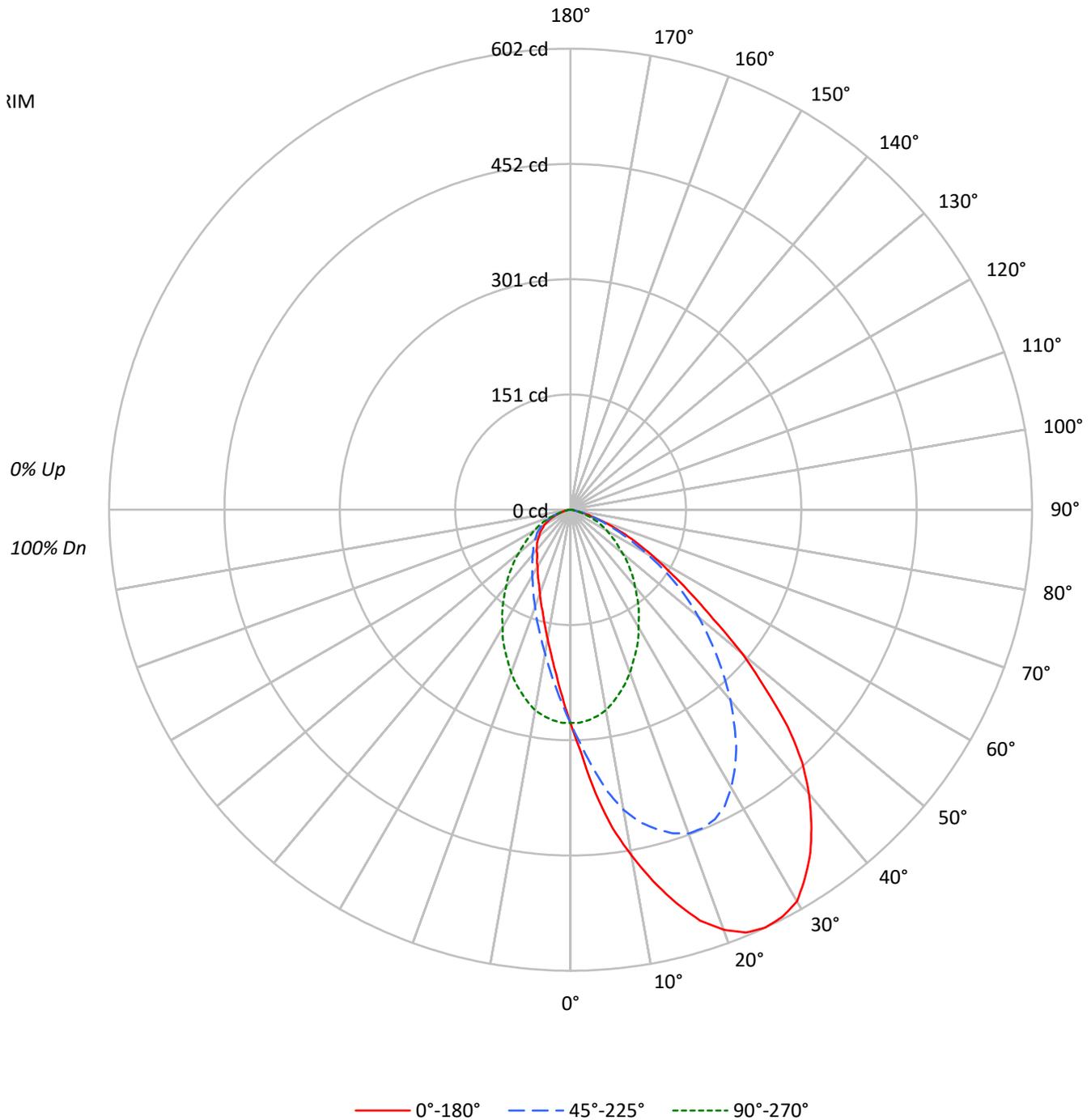
Test Method: LM-79-2019  
Report Number: P1312805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709050DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 680.0 lumens  
Efficiency: N/A  
Efficacy: 32.1 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): 21.2  
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	100	100	100	100	
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88	88	
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76	76	76	76	
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	66	66	66	66	
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	58	58	58	58	
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51	51	
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40	
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33	33	33	33	
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30	30	30	30	

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

	0°	45°	90°	135°	180°
0°	47947	47947	47947	47947	47947
5°	64173	58589	47646	39866	37187
10°	80165	69585	46483	33437	29992
15°	94765	76971	44129	28581	24819
20°	106941	82474	41494	24742	21388
25°	114358	84695	38480	21910	18965
30°	117450	83325	35239	19847	17063
35°	114710	79220	32525	18333	15958
40°	108746	73022	29407	17379	15490
45°	97594	65761	26718	16781	15076
50°	78370	58382	23739	16210	14308
55°	57830	50234	21108	16034	13932
60°	44571	39232	18876	15500	13571
65°	33824	29219	16627	14344	12022
70°	22660	20545	12740	12740	9920
75°	12177	12177	8451	8451	7453
80°	2777	5554	4166	5554	6943
85°	0	2766	2766	5533	5533

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 97594 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.5	4.0
10°-20°	83.5	12.3
20°-30°	128.6	18.9
30°-40°	146.0	21.5
40°-50°	132.1	19.4
50°-60°	92.4	13.6
60°-70°	50.8	7.5
70°-80°	17.0	2.5
80°-90°	2.2	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°	239.6	35.2
0°-40°	385.5	56.7
0°-60°	610.0	89.7
0°-90°	680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	278	278	278	278	278	
5°	371	339	276	231	215	38
15°	532	432	248	160	139	151
25°	602	446	202	115	100	276
35°	546	377	155	87	76	339
45°	401	270	110	69	62	304
55°	193	167	70	53	46	177
65°	83	72	41	35	30	83
75°	18	18	13	13	11	21
85°	0	1	1	3	3	1
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°	278.4	278.4	278.4	278.4	278.4	278.4	278.4	278.4	278.4	278.4	278.4
2.5°	317.8	320.6	322.0	319.2	317.8	316.4	313.6	312.2	309.3	306.5	305.1
5°	371.2	371.2	371.2	368.4	364.2	361.4	355.7	351.5	344.5	338.9	333.2
7.5°	419.0	419.0	417.6	413.4	410.6	403.6	396.5	390.9	379.7	371.2	360.0
10°	458.4	458.4	457.0	450.0	445.7	437.3	430.3	420.4	409.2	397.9	385.3
12.5°	496.4	496.4	490.7	485.1	476.7	465.4	455.6	445.7	430.3	417.6	402.1
15°	531.5	531.5	528.7	518.9	507.6	495.0	480.9	466.8	448.6	431.7	414.8
17.5°	562.4	561.0	556.8	545.6	534.3	518.9	502.0	485.1	462.6	442.9	421.8
20°	583.5	583.5	577.9	565.3	552.6	535.7	517.5	497.8	473.9	450.0	424.6
22.5°	597.6	596.2	590.6	577.9	562.4	545.6	524.5	503.4	476.7	450.0	423.2
25°	601.8	600.4	594.8	580.7	565.3	547.0	524.5	502.0	473.9	445.7	416.2
27.5°	599.0	597.6	592.0	576.5	561.0	539.9	517.5	493.5	465.4	435.9	406.4
30°	590.6	586.4	580.7	566.7	549.8	528.7	504.8	478.1	450.0	419.0	389.5
32.5°	569.5	569.5	562.4	548.4	531.5	509.0	485.1	459.8	428.9	399.3	368.4
35°	545.6	544.2	538.5	523.1	507.6	486.5	462.6	435.9	406.4	376.8	347.3
37.5°	516.0	514.6	509.0	495.0	478.1	458.4	433.1	407.8	379.7	350.1	323.4
40°	483.7	480.9	473.9	462.6	448.6	426.1	403.6	378.2	351.5	324.8	298.1
42.5°	447.1	444.3	438.7	430.3	413.4	393.7	372.6	348.7	323.4	296.7	277.0
45°	400.7	400.7	397.9	389.5	376.8	361.4	338.9	317.8	293.9	270.0	248.9
47.5°	343.1	345.9	344.5	340.3	334.7	320.6	305.1	286.8	264.3	243.3	223.6
50°	292.5	293.9	295.3	292.5	288.3	278.4	268.6	257.3	237.6	217.9	199.7
52.5°	234.8	239.0	239.0	240.4	240.4	237.6	234.8	222.2	212.3	192.6	175.8
55°	192.6	192.6	192.6	195.5	196.9	198.3	195.5	192.6	181.4	167.3	151.9
57.5°	157.5	157.5	160.3	158.9	158.9	161.7	161.7	160.3	153.3	140.6	126.6
60°	129.4	129.4	129.4	129.4	130.8	130.8	130.8	130.8	125.1	113.9	102.6
62.5°	104.1	104.1	104.1	105.5	105.5	105.5	106.9	105.5	99.8	91.4	81.6
65°	83.0	81.6	83.0	83.0	84.4	84.4	84.4	83.0	77.3	71.7	64.7
67.5°	61.9	63.3	63.3	63.3	64.7	66.1	64.7	63.3	59.1	53.4	50.6
70°	45.0	46.4	46.4	46.4	47.8	49.2	47.8	46.4	43.6	40.8	38.0
72.5°	29.5	30.9	30.9	32.3	33.7	33.7	32.3	32.3	30.9	28.1	26.7
75°	18.3	18.3	19.7	19.7	21.1	21.1	21.1	19.7	19.7	18.3	18.3
77.5°	8.4	8.4	9.8	9.8	9.8	11.2	11.2	11.2	11.2	11.2	9.8
80°	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	5.6	5.6	5.6
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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°	278.4	278.4	278.4	278.4	278.4	278.4	278.4	278.4
2.5°	302.3	298.1	292.5	278.4	264.3	253.1	246.1	244.7
5°	326.2	319.2	306.5	275.6	250.3	230.6	219.4	215.1
7.5°	350.1	337.5	319.2	271.4	233.4	209.5	196.9	191.2
10°	369.8	354.3	330.4	265.8	219.4	191.2	175.8	171.5
12.5°	385.3	367.0	337.5	257.3	205.3	174.4	158.9	154.7
15°	395.1	375.4	341.7	247.5	191.2	160.3	144.8	139.2
17.5°	399.3	375.4	340.3	237.6	178.6	147.6	132.2	128.0
20°	399.3	372.6	336.1	226.4	165.9	135.0	120.9	116.7
22.5°	395.1	367.0	326.2	213.7	154.7	125.1	111.1	106.9
25°	386.7	355.7	315.0	202.5	143.4	115.3	102.6	99.8
27.5°	374.0	343.1	300.9	191.2	133.6	106.9	95.6	92.8
30°	358.6	327.6	285.4	177.2	123.7	99.8	90.0	85.8
32.5°	338.9	309.3	268.6	165.9	115.3	92.8	84.4	81.6
35°	317.8	291.1	250.3	154.7	106.9	87.2	78.7	75.9
37.5°	296.7	268.6	234.8	142.0	99.8	81.6	74.5	71.7
40°	274.2	253.1	217.9	130.8	94.2	77.3	70.3	68.9
42.5°	251.7	229.2	194.0	120.9	87.2	71.7	66.1	64.7
45°	225.0	203.9	175.8	109.7	81.6	68.9	63.3	61.9
47.5°	202.5	182.8	157.5	99.8	75.9	64.7	59.1	57.7
50°	181.4	161.7	137.8	88.6	70.3	60.5	56.2	53.4
52.5°	157.5	140.6	119.5	78.7	64.7	56.2	52.0	50.6
55°	136.4	119.5	99.8	70.3	59.1	53.4	47.8	46.4
57.5°	112.5	98.4	84.4	61.9	53.4	47.8	45.0	42.2
60°	91.4	81.6	71.7	54.8	47.8	45.0	40.8	39.4
62.5°	74.5	67.5	60.5	47.8	42.2	39.4	36.6	33.7
65°	59.1	54.8	49.2	40.8	36.6	35.2	32.3	29.5
67.5°	46.4	43.6	39.4	32.3	30.9	29.5	26.7	23.9
70°	35.2	33.7	30.9	25.3	23.9	25.3	22.5	19.7
72.5°	25.3	23.9	22.5	18.3	18.3	18.3	16.9	14.1
75°	16.9	15.5	14.1	12.7	12.7	12.7	12.7	11.2
77.5°	9.8	9.8	8.4	7.0	8.4	8.4	9.8	9.8
80°	4.2	4.2	4.2	4.2	5.6	5.6	7.0	7.0
82.5°	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2
85°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)