

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: P1315713

Luminaire Tested: LDSQA3D17R159735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R159735DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

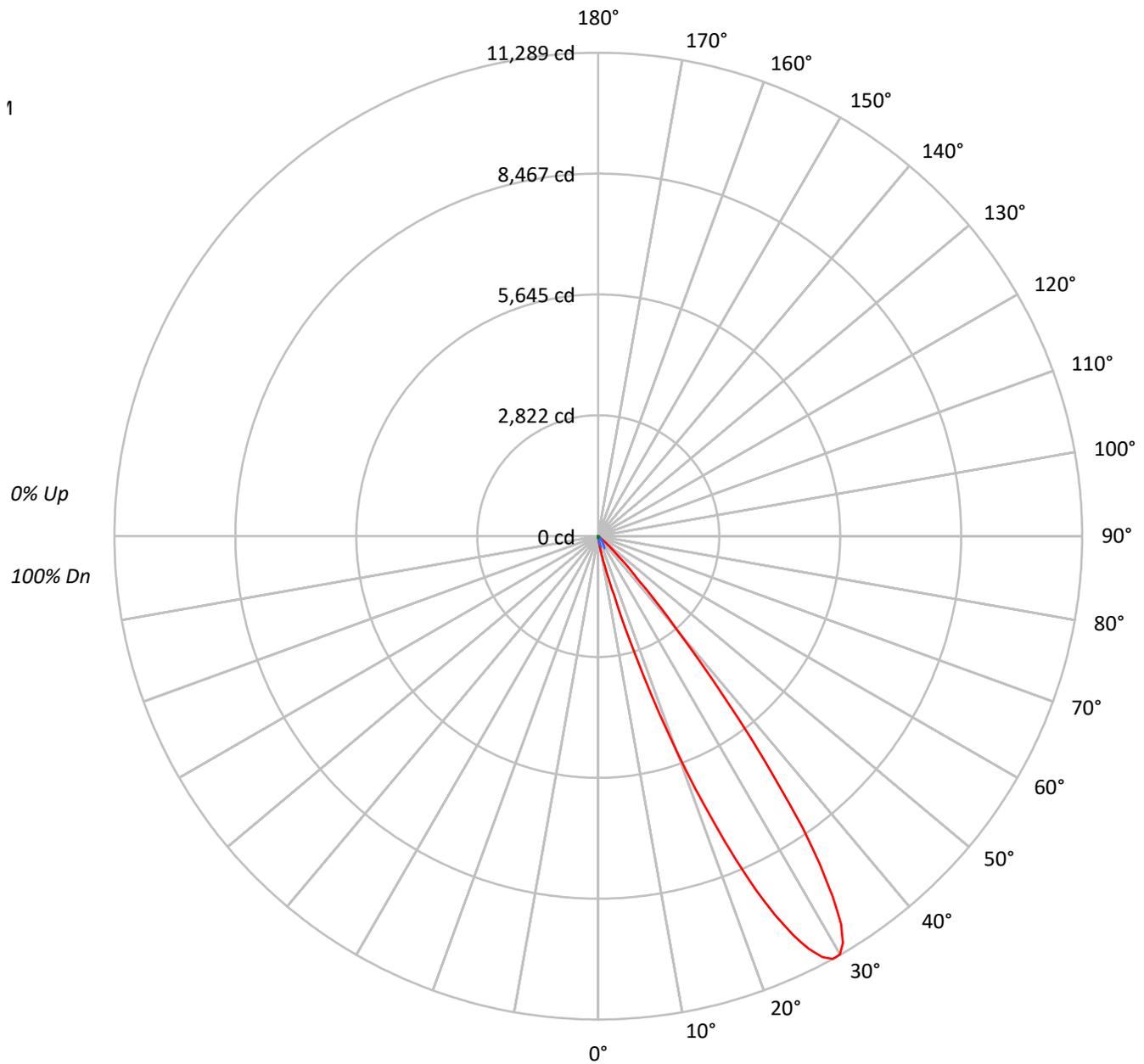
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1233.0 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
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_{in}): 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



— 0°-180° - - - 45°-225° ····· 90°-270°



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7027	7027	7027	7027	7027
5°	15144	11203	6639	3527	2904
10°	67119	21178	5246	1469	1049
15°	253843	48978	3637	642	428
20°	976217	69022	2199	220	220
25°	1856389	64723	1140	0	0
30°	2242547	52242	477	0	0
35°	1749028	35552	252	0	0
40°	638266	17536	270	0	270
45°	163891	5261	292	0	585
50°	27624	643	322	322	965
55°	3603	0	721	1081	1802
60°	413	413	1240	1653	2480
65°	489	489	1956	2445	2934
70°	604	604	2417	2417	3021
75°	799	799	3194	2396	3194
80°	0	1190	3570	2380	3570
85°	0	2371	7114	2371	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 163891 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.5
10°-20°	94.5	7.7
20°-30°	524.0	42.5
30°-40°	506.3	41.1
40°-50°	88.1	7.1
50°-60°	6.3	0.5
60°-70°	3.7	0.3
70°-80°	3.0	0.2
80°-90°	1.5	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°	624.1	50.6
0°-40°	1130.4	91.7
0°-60°	1224.7	99.3
0°-90°	1233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	88	65	38	20	17	17
15°	1424	275	20	4	2	634
25°	9769	341	6	0	0	4368
35°	8319	169	1	0	0	4784
45°	673	22	1	0	2	723
55°	12	0	2	4	6	23
65°	1	1	5	6	7	1
75°	1	1	5	4	5	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
2.5°	60.0	57.6	58.8	58.8	58.8	58.8	58.8	56.4	56.4	57.6	51.6
5°	87.6	87.6	86.4	87.6	87.6	86.4	84.0	82.8	82.8	80.4	64.8
7.5°	175.1	172.7	172.7	170.3	158.3	154.7	152.3	146.3	135.5	133.1	84.0
10°	383.8	385.0	376.6	365.8	364.6	346.6	340.6	329.8	309.4	289.1	121.1
12.5°	696.9	681.3	660.9	662.1	627.3	615.3	587.7	557.7	526.5	494.2	199.1
15°	1423.7	1379.3	1405.7	1340.9	1267.8	1185.0	1101.0	995.5	905.5	809.6	274.7
17.5°	2998.5	3041.7	2968.5	2691.5	2521.1	2320.8	2039.0	1766.7	1534.0	1346.9	335.8
20°	5326.5	5390.1	5141.8	4900.7	4487.0	4036.0	3565.8	3033.3	2523.5	2082.2	376.6
21°	6299.2	6260.9	6158.9	5772.7	5295.3	4772.4	4196.7	3609.0	2991.3	2418.0	380.2
22°	7239.6	7257.6	7020.1	6615.9	6119.3	5540.0	4837.2	4111.5	3445.9	2691.5	374.2
23°	8176.3	8233.9	7919.6	7540.6	6915.7	6262.1	5448.9	4665.7	3842.9	3004.5	362.2
24°	9043.5	9003.9	8791.6	8314.2	7646.2	6881.0	6036.6	5086.7	4169.1	3272.0	352.6
25°	9769.1	9764.3	9430.9	8966.7	8202.7	7354.7	6424.0	5430.9	4448.6	3453.1	340.6
26°	10362.8	10265.7	10003.0	9436.9	8682.4	7787.7	6741.8	5681.6	4605.7	3544.2	328.6
27°	10821.0	10751.4	10398.8	9809.9	9021.9	8032.4	6945.7	5806.3	4677.7	3574.2	313.0
28°	11129.2	11053.7	10678.2	10071.4	9209.0	8185.9	7053.7	5859.1	4677.7	3545.4	298.7
29°	11288.7	11185.6	10811.4	10161.3	9252.2	8203.9	7027.3	5807.5	4604.5	3456.7	281.9
30°	11276.7	11148.4	10756.2	10079.7	9123.8	8056.4	6879.8	5621.6	4439.0	3324.7	262.7
31°	11082.4	10938.5	10500.7	9803.9	8858.8	7778.1	6601.5	5372.1	4212.3	3153.2	243.5
32°	10687.8	10505.5	10078.5	9384.1	8451.0	7361.9	6197.3	4987.1	3872.9	2902.5	223.1
33°	10045.0	9861.5	9403.3	8752.0	7899.2	6834.2	5661.2	4573.3	3486.7	2603.9	206.3
34°	9240.2	9072.3	8677.7	8021.6	7203.6	6166.1	5044.7	4001.2	3086.1	2307.6	188.3
35°	8319.0	8051.6	7694.1	7174.8	6377.2	5333.7	4379.0	3468.7	2673.5	1997.0	169.1
36°	7072.9	7120.8	6741.8	6106.1	5445.3	4627.3	3710.9	2891.8	2235.7	1701.9	152.3
37°	5968.2	5892.6	5651.6	5159.8	4584.1	3772.1	3110.0	2451.6	1880.7	1439.3	134.3
38°	4814.4	4831.2	4594.9	4217.1	3646.2	3101.6	2503.1	2013.8	1573.6	1224.6	117.5
39°	3768.5	3755.3	3691.8	3341.5	2824.6	2467.2	2028.2	1669.6	1310.9	1032.7	99.6
40°	2839.0	2860.6	2711.8	2500.7	2199.7	1905.8	1615.6	1331.3	1084.3	870.8	78.0
42.5°	1380.5	1414.1	1315.7	1261.8	1128.6	1013.5	855.2	698.1	593.7	513.3	34.8
45°	672.9	653.7	645.3	618.9	587.7	525.3	465.4	399.4	349.0	301.0	21.6
47.5°	344.2	334.6	334.6	323.8	313.0	292.7	262.7	241.1	217.1	187.1	8.4
50°	103.1	101.9	100.7	101.9	98.4	101.9	104.3	105.5	96.0	94.8	2.4
52.5°	40.8	42.0	40.8	44.4	44.4	43.2	44.4	43.2	42.0	37.2	0.0
55°	12.0	12.0	12.0	12.0	12.0	12.0	13.2	14.4	13.2	14.4	0.0
57.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	40.8	40.8	40.8	40.8	40.8	40.8
2.5°	48.0	42.0	34.8	28.8	26.4	25.2
5°	51.6	38.4	26.4	20.4	18.0	16.8
7.5°	55.2	34.8	20.4	14.4	10.8	9.6
10°	57.6	30.0	15.6	8.4	6.0	6.0
12.5°	57.6	24.0	10.8	4.8	3.6	3.6
15°	56.4	20.4	7.2	3.6	2.4	2.4
17.5°	55.2	15.6	4.8	2.4	1.2	2.4
20°	51.6	12.0	2.4	1.2	1.2	1.2
21°	50.4	10.8	2.4	1.2	1.2	1.2
22°	48.0	9.6	1.2	0.0	1.2	1.2
23°	45.6	7.2	1.2	0.0	0.0	0.0
24°	42.0	6.0	1.2	0.0	0.0	0.0
25°	39.6	6.0	1.2	0.0	0.0	0.0
26°	37.2	3.6	0.0	0.0	0.0	0.0
27°	33.6	2.4	0.0	0.0	0.0	0.0
28°	31.2	2.4	0.0	0.0	0.0	0.0
29°	27.6	2.4	0.0	0.0	0.0	0.0
30°	24.0	2.4	0.0	0.0	0.0	0.0
31°	19.2	1.2	0.0	0.0	0.0	0.0
32°	15.6	1.2	0.0	0.0	0.0	0.0
33°	10.8	1.2	0.0	0.0	0.0	0.0
34°	7.2	1.2	0.0	0.0	0.0	0.0
35°	6.0	1.2	0.0	0.0	0.0	0.0
36°	3.6	1.2	0.0	0.0	0.0	1.2
37°	3.6	1.2	0.0	0.0	0.0	1.2
38°	2.4	1.2	0.0	0.0	0.0	1.2
39°	1.2	1.2	0.0	0.0	0.0	1.2
40°	1.2	1.2	0.0	0.0	0.0	1.2
42.5°	0.0	1.2	0.0	0.0	1.2	2.4
45°	0.0	1.2	0.0	0.0	1.2	2.4
47.5°	0.0	1.2	0.0	0.0	2.4	2.4
50°	0.0	1.2	1.2	1.2	2.4	3.6
52.5°	0.0	2.4	1.2	2.4	3.6	4.8
55°	1.2	2.4	2.4	3.6	4.8	6.0
57.5°	1.2	3.6	3.6	4.8	6.0	6.0
60°	2.4	3.6	4.8	4.8	7.2	7.2
62.5°	2.4	4.8	4.8	4.8	7.2	7.2
65°	2.4	4.8	4.8	6.0	7.2	7.2
67.5°	2.4	4.8	4.8	4.8	6.0	7.2
70°	2.4	4.8	3.6	4.8	6.0	6.0
72.5°	2.4	4.8	3.6	3.6	4.8	6.0
75°	2.4	4.8	3.6	3.6	4.8	4.8
77.5°	2.4	3.6	3.6	2.4	3.6	3.6
80°	2.4	3.6	2.4	2.4	3.6	3.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.4	3.6	2.4	1.2	2.4	2.4
85°	2.4	3.6	2.4	1.2	1.2	1.2
87.5°	2.4	3.6	1.2	0.0	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)