

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: P1307405

Luminaire Tested: LDSQA3D20R159024D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307405
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: LDSQA3D20R159024D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

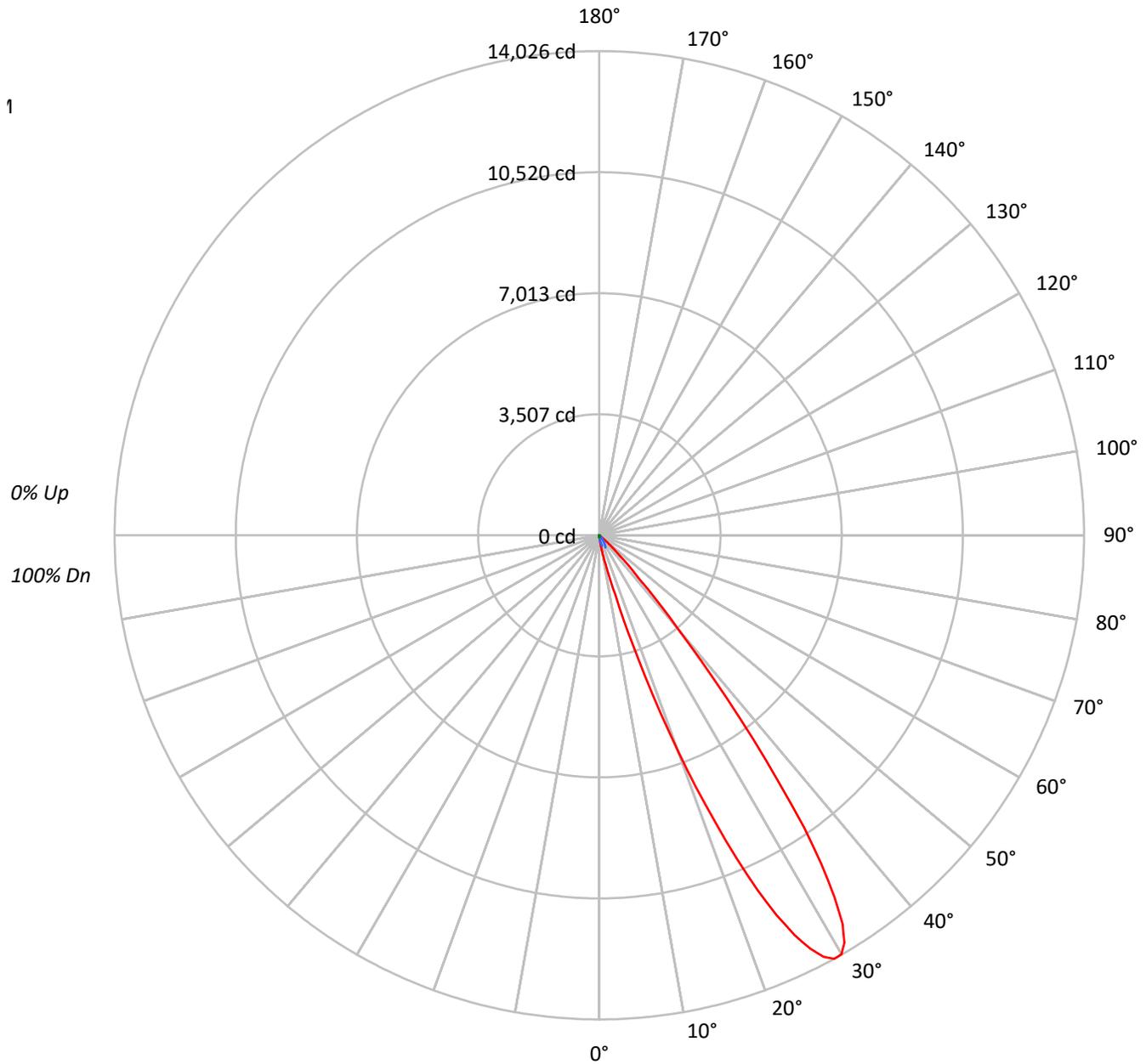
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1532.1 lumens
Efficiency: N/A
Efficacy: 53.2 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): 28.8
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

TEST NUMBER: P1307405
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Luminous Intensity Polar Plot



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



TEST NUMBER: P1307405

CATALOG NUMBER: LDSQA3D20R159024D010 3LSQCA30R 1MW

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	50	50
8	71	60	53	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41	41	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8732	8732	8732	8732	8732
5°	18809	13917	8246	4374	3613
10°	83400	26319	6523	1819	1312
15°	315391	60853	4511	802	535
20°	1212954	85755	2731	275	275
25°	2306563	80419	1425	0	0
30°	2786365	64910	597	0	0
35°	2173177	44172	315	0	0
40°	793033	21785	337	0	337
45°	203616	6527	365	0	731
50°	34349	804	402	402	1206
55°	4474	0	901	1351	2252
60°	517	517	1550	2067	3066
65°	611	611	2445	3056	3627
70°	755	755	3021	3021	3777
75°	998	998	3993	2994	3993
80°	0	1488	4463	2975	4463
85°	0	2964	8892	2964	2964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 203616 cd/sqm



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CATALOG NUMBER: LDSQA3D20R159024D010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.5
10°-20°	117.4	7.7
20°-30°	651.1	42.5
30°-40°	629.0	41.1
40°-50°	109.4	7.1
50°-60°	7.9	0.5
60°-70°	4.6	0.3
70°-80°	3.8	0.2
80°-90°	1.9	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°	775.4	50.6
0°-40°	1404.5	91.7
0°-60°	1521.8	99.3
0°-90°	1532.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	109	80	48	25	21	21
15°	1769	341	25	4	3	788
25°	12138	423	8	0	0	5427
35°	10336	210	2	0	0	5945
45°	836	27	2	0	3	898
55°	15	0	3	4	8	29
65°	2	2	6	8	9	1
75°	2	2	6	4	6	1
85°	0	2	4	2	2	0
90°	0	0	0	0	0	



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 CATALOG NUMBER: LDSQA3D20R159024D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
2.5°	74.5	71.5	73.0	73.0	73.0	73.0	73.0	70.0	70.0	71.5	64.1
5°	108.8	108.8	107.3	108.8	108.8	107.3	104.3	102.8	102.8	99.8	80.5
7.5°	217.6	214.6	214.6	211.6	196.7	192.2	189.3	181.8	168.4	165.4	104.3
10°	476.9	478.4	467.9	454.5	453.0	430.7	423.2	409.8	384.5	359.2	150.5
12.5°	865.8	846.5	821.1	822.6	779.4	764.5	730.2	693.0	654.2	614.0	247.4
15°	1768.9	1713.8	1746.6	1666.1	1575.2	1472.4	1368.1	1236.9	1125.1	1005.9	341.3
17.5°	3725.6	3779.3	3688.4	3344.1	3132.5	2883.6	2533.4	2195.1	1906.0	1673.6	417.3
20°	6618.2	6697.2	6388.7	6089.2	5575.0	5014.7	4430.5	3768.8	3135.5	2587.1	467.9
21°	7826.8	7779.1	7652.4	7172.6	6579.5	5929.7	5214.4	4484.2	3716.7	3004.3	472.4
22°	8995.2	9017.5	8722.4	8220.2	7603.3	6883.5	6010.2	5108.6	4281.5	3344.1	465.0
23°	10159.0	10230.6	9840.1	9369.2	8592.8	7780.6	6770.2	5797.1	4774.8	3733.1	450.1
24°	11236.5	11187.3	10923.5	10330.4	9500.3	8549.6	7500.4	6320.2	5180.1	4065.4	438.1
25°	12138.1	12132.1	11717.8	11141.1	10191.8	9138.2	7981.8	6747.9	5527.3	4290.4	423.2
26°	12875.8	12755.1	12428.7	11725.3	10787.9	9676.2	8376.7	7059.3	5722.6	4403.7	408.3
27°	13445.0	13358.6	12920.5	12188.8	11209.7	9980.2	8630.0	7214.3	5812.0	4440.9	389.0
28°	13828.0	13734.2	13267.7	12513.6	11442.1	10171.0	8764.2	7279.9	5812.0	4405.2	371.1
29°	14026.2	13898.1	13433.1	12625.4	11495.8	10193.3	8731.4	7215.8	5721.1	4294.9	350.2
30°	14011.3	13851.9	13364.6	12524.1	11336.3	10010.0	8548.1	6984.8	5515.4	4131.0	326.4
31°	13769.9	13591.1	13047.1	12181.3	11007.0	9664.3	8202.3	6674.8	5233.8	3917.9	302.5
32°	13279.6	13053.1	12522.6	11659.7	10500.3	9147.2	7700.1	6196.5	4812.0	3606.4	277.2
33°	12480.9	12252.8	11683.6	10874.4	9814.8	8491.4	7034.0	5682.3	4332.2	3235.3	256.3
34°	11480.9	11272.3	10782.0	9966.8	8950.4	7661.4	6268.0	4971.5	3834.4	2867.2	234.0
35°	10336.4	10004.1	9560.0	8914.7	7923.7	6627.1	5440.9	4309.8	3321.8	2481.3	210.1
36°	8788.0	8847.6	8376.7	7586.9	6765.7	5749.4	4610.8	3593.0	2777.8	2114.7	189.3
37°	7415.5	7321.6	7022.1	6411.1	5695.7	4686.8	3864.2	3046.1	2336.7	1788.3	166.9
38°	5981.9	6002.7	5709.2	5239.7	4530.4	3853.8	3110.2	2502.1	1955.2	1521.5	146.0
39°	4682.4	4666.0	4587.0	4151.8	3509.5	3065.4	2520.0	2074.4	1628.8	1283.1	123.7
40°	3527.4	3554.2	3369.5	3107.2	2733.1	2368.0	2007.4	1654.2	1347.2	1081.9	96.9
42.5°	1715.3	1757.0	1634.8	1567.7	1402.3	1259.3	1062.5	867.3	737.7	637.8	43.2
45°	836.0	812.2	801.8	769.0	730.2	652.7	578.2	496.3	433.7	374.1	26.8
47.5°	427.7	415.8	415.8	402.4	389.0	363.6	326.4	299.5	269.7	232.5	10.4
50°	128.2	126.7	125.2	126.7	122.2	126.7	129.7	131.1	119.2	117.7	3.0
52.5°	50.7	52.2	50.7	55.1	55.1	53.6	55.1	53.6	52.2	46.2	0.0
55°	14.9	14.9	14.9	14.9	14.9	14.9	16.4	17.9	16.4	17.9	0.0
57.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5



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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	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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°	50.7	50.7	50.7	50.7	50.7	50.7
2.5°	59.6	52.2	43.2	35.8	32.8	31.3
5°	64.1	47.7	32.8	25.3	22.4	20.9
7.5°	68.6	43.2	25.3	17.9	13.4	11.9
10°	71.5	37.3	19.4	10.4	7.5	7.5
12.5°	71.5	29.8	13.4	6.0	4.5	4.5
15°	70.0	25.3	8.9	4.5	3.0	3.0
17.5°	68.6	19.4	6.0	3.0	1.5	3.0
20°	64.1	14.9	3.0	1.5	1.5	1.5
21°	62.6	13.4	3.0	1.5	1.5	1.5
22°	59.6	11.9	1.5	0.0	1.5	1.5
23°	56.6	8.9	1.5	0.0	0.0	0.0
24°	52.2	7.5	1.5	0.0	0.0	0.0
25°	49.2	7.5	1.5	0.0	0.0	0.0
26°	46.2	4.5	0.0	0.0	0.0	0.0
27°	41.7	3.0	0.0	0.0	0.0	0.0
28°	38.7	3.0	0.0	0.0	0.0	0.0
29°	34.3	3.0	0.0	0.0	0.0	0.0
30°	29.8	3.0	0.0	0.0	0.0	0.0
31°	23.8	1.5	0.0	0.0	0.0	0.0
32°	19.4	1.5	0.0	0.0	0.0	0.0
33°	13.4	1.5	0.0	0.0	0.0	0.0
34°	8.9	1.5	0.0	0.0	0.0	0.0
35°	7.5	1.5	0.0	0.0	0.0	0.0
36°	4.5	1.5	0.0	0.0	0.0	1.5
37°	4.5	1.5	0.0	0.0	0.0	1.5
38°	3.0	1.5	0.0	0.0	0.0	1.5
39°	1.5	1.5	0.0	0.0	0.0	1.5
40°	1.5	1.5	0.0	0.0	0.0	1.5
42.5°	0.0	1.5	0.0	0.0	1.5	3.0
45°	0.0	1.5	0.0	0.0	1.5	3.0
47.5°	0.0	1.5	0.0	0.0	3.0	3.0
50°	0.0	1.5	1.5	1.5	3.0	4.5
52.5°	0.0	3.0	1.5	3.0	4.5	6.0
55°	1.5	3.0	3.0	4.5	6.0	7.5
57.5°	1.5	4.5	4.5	6.0	7.5	7.5
60°	3.0	4.5	6.0	6.0	8.9	8.9
62.5°	3.0	6.0	6.0	6.0	8.9	8.9
65°	3.0	6.0	6.0	7.5	8.9	8.9
67.5°	3.0	6.0	6.0	6.0	7.5	8.9
70°	3.0	6.0	4.5	6.0	7.5	7.5
72.5°	3.0	6.0	4.5	4.5	6.0	7.5
75°	3.0	6.0	4.5	4.5	6.0	6.0
77.5°	3.0	4.5	4.5	3.0	4.5	4.5
80°	3.0	4.5	3.0	3.0	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.0	4.5	3.0	1.5	3.0	3.0
85°	3.0	4.5	3.0	1.5	1.5	1.5
87.5°	3.0	4.5	1.5	0.0	0.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)