

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: P1319406

Luminaire Tested: LDSQA3D17R409835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R409835DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

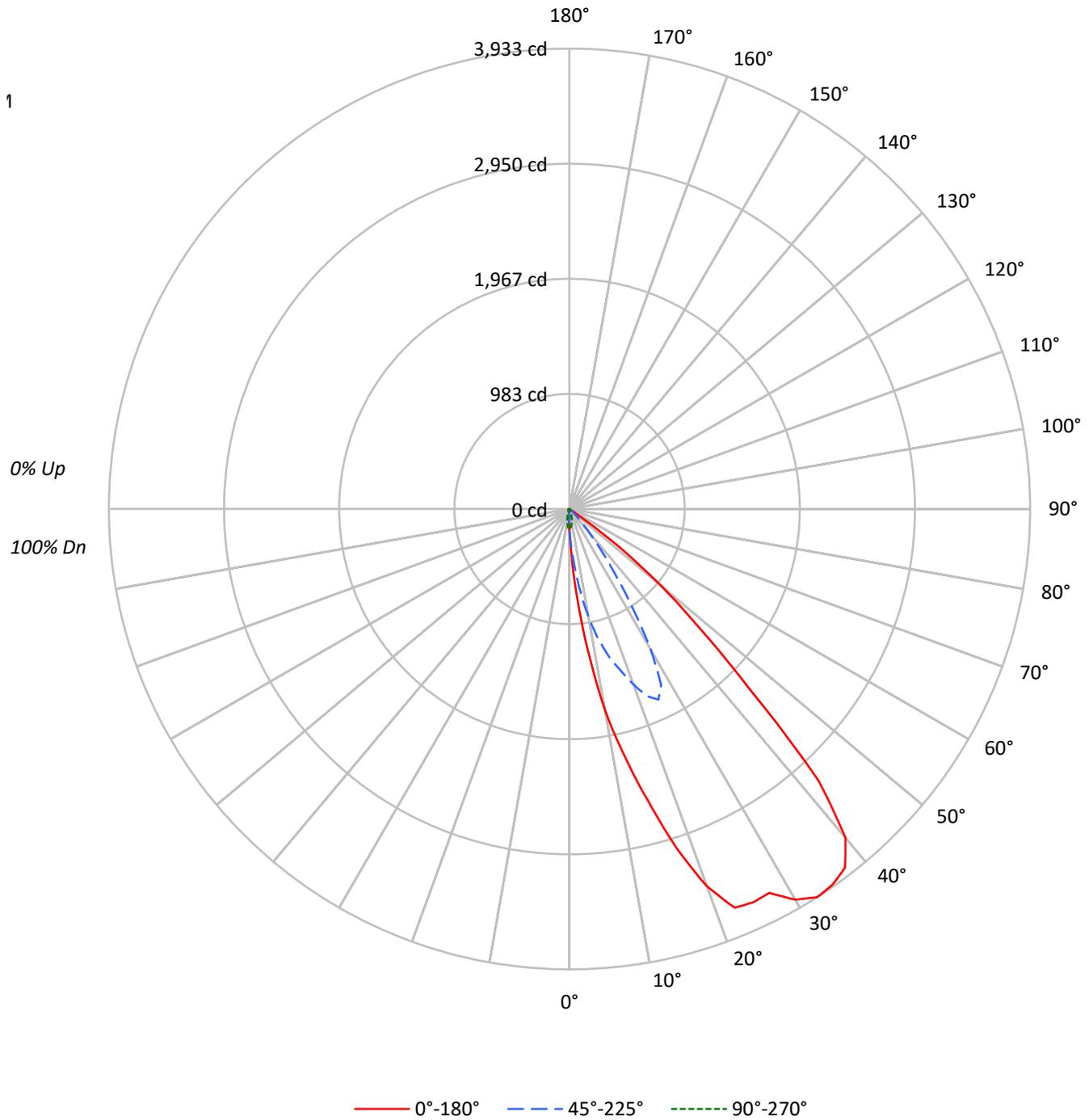
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1451.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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

TEST NUMBER: P1319406
CATALOG NUMBER: LDSQA3D17R409835DE010 3LSQCA30R 1MW

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	29571	29571	29571	29571	29571
5°	133360	85023	26503	10183	7417
10°	305829	164282	18660	3637	2781
15°	458957	233089	11589	1961	1747
20°	628433	292196	6745	1118	1356
25°	704486	341402	3496	931	1159
30°	766269	275588	1472	736	1213
35°	823530	141032	526	1030	1556
40°	823833	56250	270	1102	1933
45°	525991	18827	609	1802	2679
50°	273048	2304	991	2304	3296
55°	23570	360	1111	2943	4054
60°	861	413	1274	3376	4650
65°	1019	489	1997	3505	5012
70°	604	604	2467	3726	4935
75°	799	799	2462	4059	5723
80°	1190	1190	3670	3670	4860
85°	0	2371	7311	4940	4940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 525991 cd/sqm



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CATALOG NUMBER: LDSQA3D17R409835DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	2.3
10°-20°	196.4	13.5
20°-30°	430.1	29.6
30°-40°	490.0	33.8
40°-50°	258.5	17.8
50°-60°	30.5	2.1
60°-70°	5.5	0.4
70°-80°	4.5	0.3
80°-90°	2.1	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°	659.9	45.5
0°-40°	1149.9	79.3
0°-60°	1439.0	99.2
0°-90°	1451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1451.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	172	172	172	172	172	
5°	771	492	153	59	43	104
15°	2574	1307	65	11	10	758
25°	3707	1797	18	5	6	1708
35°	3917	671	2	5	7	2428
45°	2160	77	2	7	11	1741
55°	78	1	4	10	14	244
65°	2	1	5	9	12	2
75°	1	1	4	6	9	1
85°	0	1	4	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°	67.5°
0°	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7	171.7
2.5°	382.6	382.6	381.4	370.4	369.1	367.9	348.3	343.4	320.1	304.1	231.8
5°	771.4	754.2	753.0	733.4	700.3	656.1	627.9	582.5	538.4	491.8	285.7
7.5°	1228.8	1243.5	1203.1	1182.2	1108.6	1055.9	975.0	903.8	804.5	711.3	329.9
10°	1748.8	1723.0	1682.6	1642.1	1562.4	1468.0	1347.8	1221.5	1078.0	939.4	354.4
12.5°	2154.7	2121.6	2097.1	2041.9	1963.4	1842.0	1698.5	1529.3	1339.2	1139.3	353.2
15°	2574.1	2541.0	2485.8	2436.8	2320.3	2184.1	2028.4	1805.2	1572.2	1307.3	327.4
17.5°	3035.2	2992.3	2931.0	2856.2	2743.4	2592.5	2395.1	2122.8	1792.9	1444.7	280.8
20°	3428.9	3403.1	3341.8	3253.5	3143.2	2996.0	2767.9	2466.2	2064.0	1594.3	223.2
22.5°	3686.4	3663.1	3621.4	3544.2	3460.8	3303.8	3095.3	2764.2	2290.8	1730.4	169.2
25°	3707.3	3697.5	3686.4	3660.7	3610.4	3498.8	3295.2	2938.4	2431.9	1796.6	125.1
27.5°	3696.2	3692.6	3690.1	3676.6	3643.5	3533.1	3324.7	2964.1	2413.5	1693.6	92.0
30°	3853.2	3842.2	3836.1	3791.9	3704.8	3534.4	3262.1	2825.5	2144.9	1385.8	66.2
32.5°	3932.9	3930.5	3924.3	3881.4	3758.8	3536.8	3156.6	2490.7	1701.0	1000.7	45.4
35°	3917.0	3904.7	3882.7	3802.9	3632.5	3354.1	2815.7	1989.2	1227.6	670.8	29.4
37.5°	3863.0	3834.8	3791.9	3648.4	3421.5	3041.4	2283.5	1464.3	835.2	434.1	17.2
40°	3664.4	3626.3	3558.9	3383.5	3085.5	2506.7	1688.7	989.7	548.2	250.2	4.9
42.5°	3150.5	3101.5	3052.4	2856.2	2515.3	1869.0	1111.1	612.0	312.7	137.4	1.2
45°	2159.6	2098.3	2030.9	1888.6	1615.1	1131.9	661.0	344.6	161.9	77.3	1.2
47.5°	1499.8	1471.6	1353.9	1172.4	898.9	599.7	342.2	169.2	85.8	35.6	1.2
50°	1019.1	987.2	849.9	674.5	478.3	287.0	157.0	84.6	38.0	8.6	1.2
52.5°	534.7	495.4	408.4	311.5	193.8	120.2	68.7	36.8	11.0	1.2	1.2
55°	78.5	72.4	58.9	47.8	42.9	33.1	19.6	8.6	1.2	1.2	2.5
57.5°	2.5	2.5	2.5	2.5	3.7	3.7	2.5	1.2	1.2	1.2	2.5
60°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	2.5
62.5°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	2.5
65°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	2.5
67.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	2.5	3.7
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5
82.5°	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1319406

CATALOG NUMBER: LDSQA3D17R409835DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	171.7	171.7	171.7	171.7	171.7
2.5°	169.2	125.1	96.9	83.4	82.2
5°	153.3	89.5	58.9	45.4	42.9
7.5°	130.0	62.5	34.3	24.5	23.3
10°	106.7	42.9	20.8	17.2	15.9
12.5°	84.6	28.2	14.7	13.5	12.3
15°	65.0	18.4	11.0	9.8	9.8
17.5°	49.1	12.3	8.6	8.6	8.6
20°	36.8	8.6	6.1	7.4	7.4
22.5°	25.8	6.1	4.9	6.1	6.1
25°	18.4	4.9	4.9	6.1	6.1
27.5°	12.3	3.7	3.7	4.9	6.1
30°	7.4	2.5	3.7	4.9	6.1
32.5°	3.7	2.5	3.7	6.1	6.1
35°	2.5	3.7	4.9	6.1	7.4
37.5°	1.2	3.7	4.9	7.4	7.4
40°	1.2	3.7	4.9	7.4	8.6
42.5°	2.5	4.9	6.1	8.6	9.8
45°	2.5	4.9	7.4	9.8	11.0
47.5°	2.5	4.9	8.6	11.0	11.0
50°	3.7	6.1	8.6	11.0	12.3
52.5°	3.7	6.1	8.6	12.3	13.5
55°	3.7	6.1	9.8	12.3	13.5
57.5°	3.7	7.4	9.8	12.3	13.5
60°	3.7	6.1	9.8	12.3	13.5
62.5°	4.9	6.1	8.6	12.3	12.3
65°	4.9	6.1	8.6	12.3	12.3
67.5°	4.9	6.1	8.6	11.0	11.0
70°	4.9	6.1	7.4	9.8	9.8
72.5°	4.9	6.1	7.4	8.6	9.8
75°	3.7	4.9	6.1	7.4	8.6
77.5°	3.7	4.9	4.9	7.4	7.4
80°	3.7	3.7	3.7	4.9	4.9
82.5°	3.7	3.7	2.5	3.7	3.7
85°	3.7	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)