

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: P1311667

Luminaire Tested: LDSQA3D17R409040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311667
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: LDSQA3D17R409040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

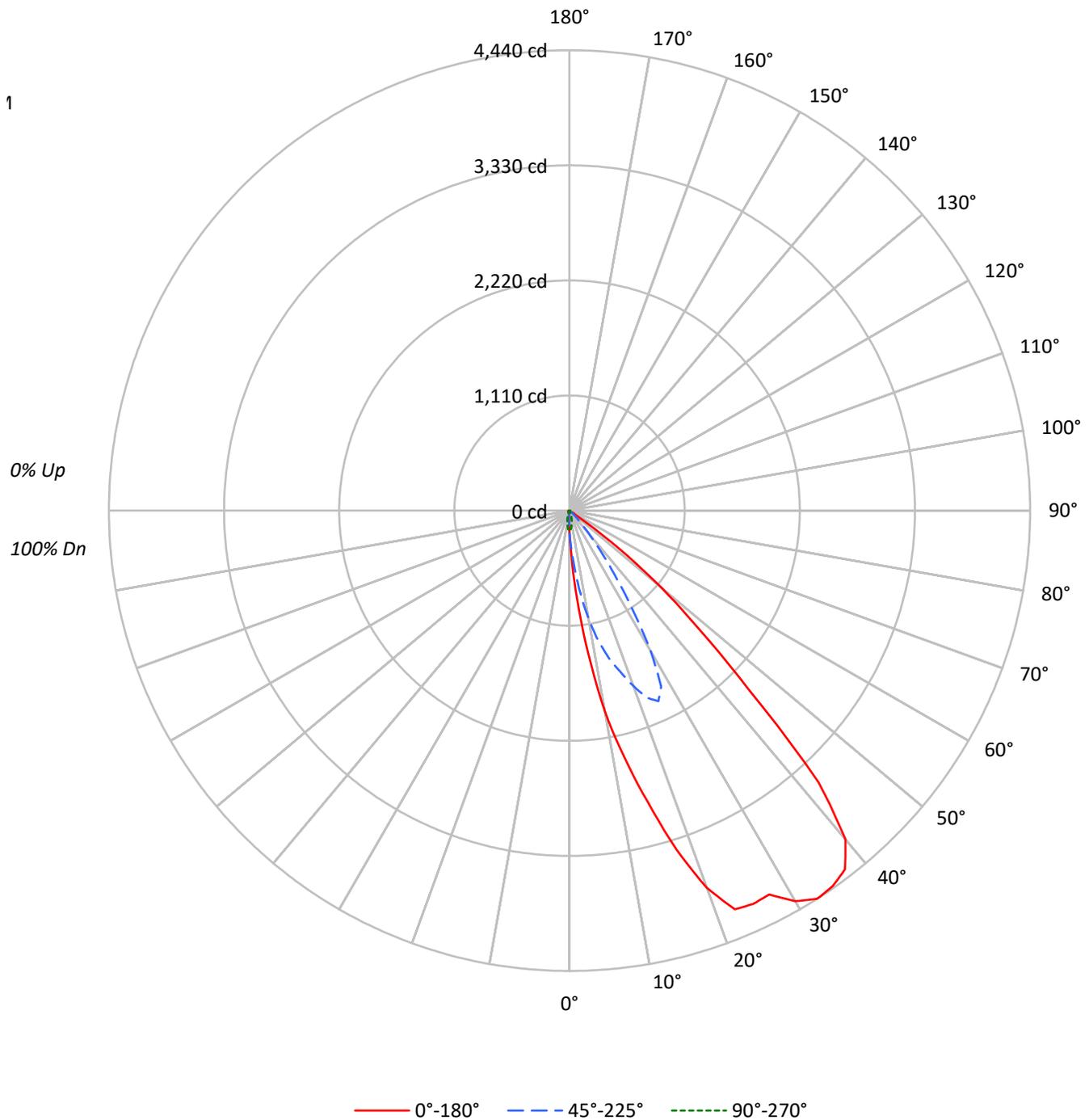
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1638.0 lumens
Efficiency: N/A
Efficacy: 77.3 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): 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

TEST NUMBER: P1311667
CATALOG NUMBER: LDSQA3D17R409040DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1311667

CATALOG NUMBER: LDSQA3D17R409040DE010 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	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	82	89	86	84
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	82	79	76
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67	76	72	68
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	70	65	62
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	64	60	56
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49	59	54	51
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44	55	50	46
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	51	46	42
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33377	33377	33377	33377	33377
5°	150544	95966	29926	11497	8385
10°	345247	185460	21055	4110	3148
15°	518116	263132	13087	2229	1979
20°	709423	329841	7606	1265	1521
25°	795281	385412	3953	1045	1311
30°	865025	311105	1651	835	1372
35°	929661	159219	589	1156	1745
40°	929993	63489	315	1237	2181
45°	593774	21238	682	2022	3044
50°	308228	2599	1125	2599	3697
55°	26603	420	1261	3333	4564
60°	964	482	1447	3823	5236
65°	1141	571	2241	3953	5624
70°	705	705	2769	4179	5589
75°	932	932	2795	4591	6455
80°	1389	1389	4166	4166	5455
85°	0	2766	8299	5533	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 593774 cd/sqm



TEST NUMBER: P1311667

CATALOG NUMBER: LDSQA3D17R409040DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	2.3
10°-20°	221.7	13.5
20°-30°	485.5	29.6
30°-40°	553.1	33.8
40°-50°	291.9	17.8
50°-60°	34.4	2.1
60°-70°	6.2	0.4
70°-80°	5.1	0.3
80°-90°	2.3	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°	745.0	45.5
0°-40°	1298.1	79.2
0°-60°	1624.4	99.2
0°-90°	1638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1638.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	194	194	194	194	194	
5°	871	555	173	66	48	117
15°	2906	1476	73	12	11	856
25°	4185	2028	21	6	7	1928
35°	4422	757	3	6	8	2741
45°	2438	87	3	8	12	1965
55°	89	1	4	11	15	275
65°	3	1	6	10	14	3
75°	1	1	4	7	10	1
85°	0	1	4	3	3	0
90°	0	0	0	0	0	



TEST NUMBER: P1311667

CATALOG NUMBER: LDSQA3D17R409040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	193.8	193.8	193.8	193.8	193.8	193.8	193.8	193.8	193.8	193.8	193.8
2.5°	431.9	431.9	430.6	418.1	416.7	415.3	393.2	387.6	361.3	343.3	261.7
5°	870.8	851.4	850.0	827.9	790.5	740.7	708.8	657.6	607.8	555.1	322.6
7.5°	1387.2	1403.8	1358.1	1334.6	1251.5	1192.0	1100.6	1020.3	908.2	803.0	372.4
10°	1974.2	1945.1	1899.4	1853.7	1763.7	1657.1	1521.5	1378.9	1216.9	1060.5	400.1
12.5°	2432.4	2395.0	2367.3	2305.0	2216.4	2079.4	1917.4	1726.4	1511.8	1286.1	398.7
15°	2905.9	2868.5	2806.2	2750.8	2619.3	2465.6	2289.8	2037.8	1774.8	1475.8	369.6
17.5°	3426.4	3378.0	3308.7	3224.3	3096.9	2926.6	2703.7	2396.4	2024.0	1630.8	317.0
20°	3870.8	3841.7	3772.5	3672.8	3548.2	3382.1	3124.6	2784.0	2330.0	1799.7	252.0
22.5°	4161.5	4135.2	4088.2	4000.9	3906.8	3729.6	3494.2	3120.5	2586.1	1953.4	191.0
25°	4185.1	4174.0	4161.5	4132.5	4075.7	3949.7	3719.9	3317.0	2745.3	2028.2	141.2
27.5°	4172.6	4168.5	4165.7	4150.5	4113.1	3988.5	3753.1	3346.1	2724.5	1911.9	103.8
30°	4349.8	4337.4	4330.4	4280.6	4182.3	3989.9	3682.5	3189.7	2421.3	1564.4	74.8
32.5°	4439.8	4437.0	4430.1	4381.7	4243.2	3992.6	3563.5	2811.7	1920.2	1129.7	51.2
35°	4421.8	4408.0	4383.0	4293.1	4100.6	3786.4	3178.6	2245.5	1385.8	757.3	33.2
37.5°	4360.9	4329.0	4280.6	4118.6	3862.5	3433.3	2577.8	1653.0	942.8	490.1	19.4
40°	4136.6	4093.7	4017.6	3819.6	3483.2	2829.7	1906.3	1117.2	618.8	282.4	5.5
42.5°	3556.5	3501.2	3445.8	3224.3	2839.4	2109.8	1254.3	690.8	353.0	155.1	1.4
45°	2437.9	2368.7	2292.6	2132.0	1823.3	1277.8	746.2	389.0	182.7	87.2	1.4
47.5°	1693.1	1661.3	1528.4	1323.5	1014.8	677.0	386.2	191.0	96.9	40.1	1.4
50°	1150.4	1114.4	959.4	761.4	539.9	324.0	177.2	95.5	42.9	9.7	1.4
52.5°	603.6	559.3	461.0	351.6	218.7	135.7	77.5	41.5	12.5	1.4	1.4
55°	88.6	81.7	66.5	54.0	48.5	37.4	22.2	9.7	1.4	1.4	2.8
57.5°	2.8	2.8	2.8	2.8	4.2	4.2	2.8	1.4	1.4	1.4	2.8
60°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
65°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
67.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8	4.2
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8
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: P1311667

CATALOG NUMBER: LDSQA3D17R409040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	193.8	193.8	193.8	193.8	193.8
2.5°	191.0	141.2	109.4	94.1	92.8
5°	173.1	101.1	66.5	51.2	48.5
7.5°	146.7	70.6	38.8	27.7	26.3
10°	120.4	48.5	23.5	19.4	18.0
12.5°	95.5	31.8	16.6	15.2	13.8
15°	73.4	20.8	12.5	11.1	11.1
17.5°	55.4	13.8	9.7	9.7	9.7
20°	41.5	9.7	6.9	8.3	8.3
22.5°	29.1	6.9	5.5	6.9	6.9
25°	20.8	5.5	5.5	6.9	6.9
27.5°	13.8	4.2	4.2	5.5	6.9
30°	8.3	2.8	4.2	5.5	6.9
32.5°	4.2	2.8	4.2	6.9	6.9
35°	2.8	4.2	5.5	6.9	8.3
37.5°	1.4	4.2	5.5	8.3	8.3
40°	1.4	4.2	5.5	8.3	9.7
42.5°	2.8	5.5	6.9	9.7	11.1
45°	2.8	5.5	8.3	11.1	12.5
47.5°	2.8	5.5	9.7	12.5	12.5
50°	4.2	6.9	9.7	12.5	13.8
52.5°	4.2	6.9	9.7	13.8	15.2
55°	4.2	6.9	11.1	13.8	15.2
57.5°	4.2	8.3	11.1	13.8	15.2
60°	4.2	6.9	11.1	13.8	15.2
62.5°	5.5	6.9	9.7	13.8	13.8
65°	5.5	6.9	9.7	13.8	13.8
67.5°	5.5	6.9	9.7	12.5	12.5
70°	5.5	6.9	8.3	11.1	11.1
72.5°	5.5	6.9	8.3	9.7	11.1
75°	4.2	5.5	6.9	8.3	9.7
77.5°	4.2	5.5	5.5	8.3	8.3
80°	4.2	4.2	4.2	5.5	5.5
82.5°	4.2	4.2	2.8	4.2	4.2
85°	4.2	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)