

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: P1312605

Luminaire Tested: LDSQA3D13R509050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R509050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

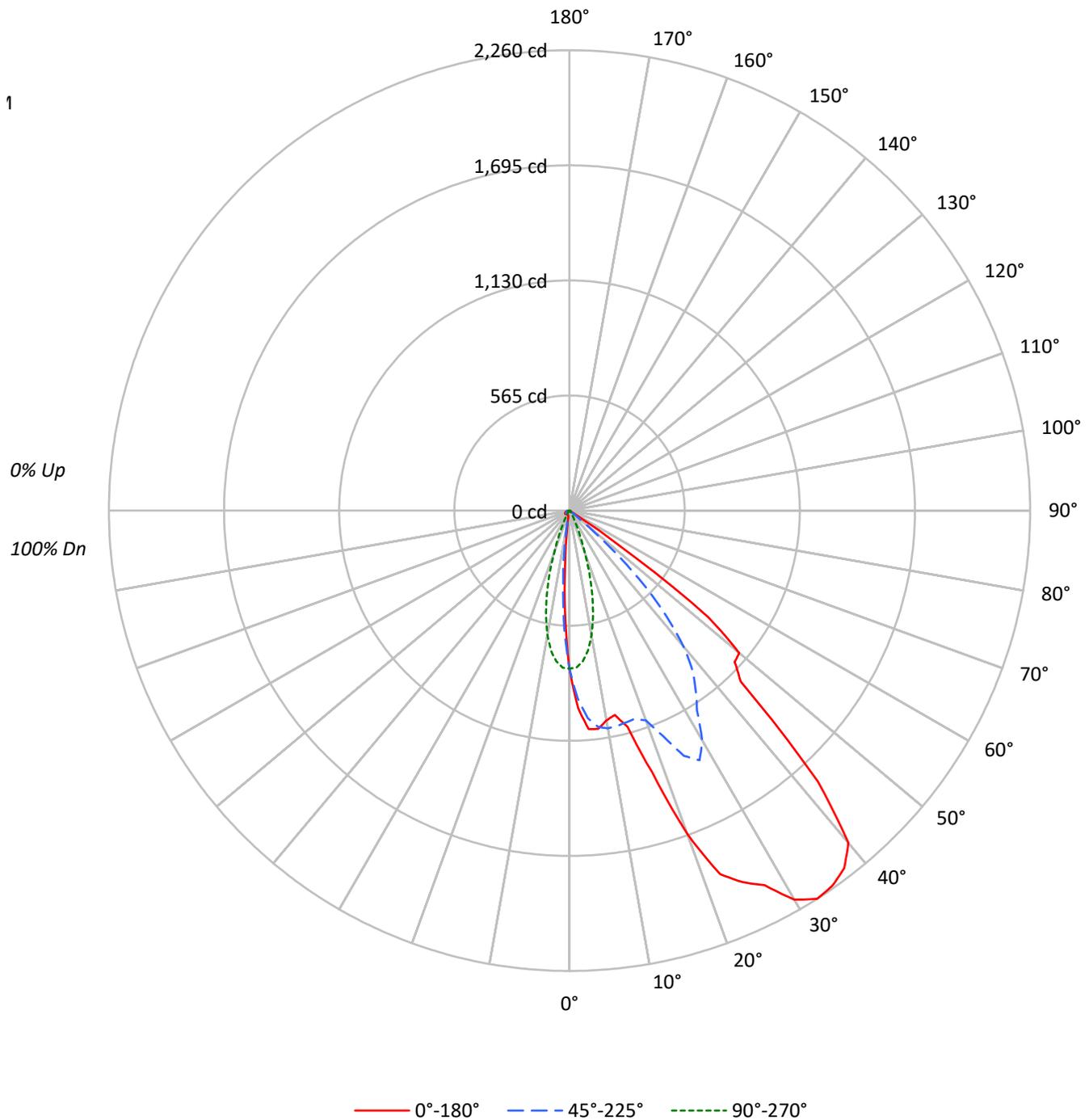
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1206.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1312605
CATALOG NUMBER: LDSQA3D13R509050DE010 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	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	133541	133541	133541	133541	133541
5°	186192	176649	128346	61701	40022
10°	182767	189832	108478	12994	5579
15°	196003	191831	76704	4547	4350
20°	309516	200888	40486	3885	4087
25°	382467	252298	16152	3630	4029
30°	438499	258744	6543	3599	4216
35°	472736	227107	2901	3805	4688
40°	478531	195572	2158	4294	5261
45°	289227	126748	2070	4652	5943
50°	291402	21917	2277	5412	6832
55°	86115	1261	2552	6065	7657
60°	1447	1447	2549	6579	8404
65°	1304	1304	2608	6928	9088
70°	1611	1611	2669	7503	10172
75°	1397	1397	2795	7785	10580
80°	1091	2083	3174	7339	11604
85°	2174	4150	4150	8299	10473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 330340 cd/sqm



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CATALOG NUMBER: LDSQA3D13R509050DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	5.2
10°-20°	155.7	12.9
20°-30°	291.6	24.2
30°-40°	348.7	28.9
40°-50°	249.9	20.7
50°-60°	77.0	6.4
60°-70°	10.0	0.8
70°-80°	7.3	0.6
80°-90°	3.0	0.2
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°	510.0	42.3
0°-40°	858.7	71.2
0°-60°	1185.6	98.3
0°-90°	1206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1206.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	775	775	775	775	775	
5°	1077	1022	742	357	232	100
15°	1099	1076	430	26	24	352
25°	2013	1328	85	19	21	927
35°	2248	1080	14	18	22	1395
45°	1188	520	8	19	24	1091
55°	287	4	8	20	26	369
65°	3	3	6	17	22	4
75°	2	2	4	12	16	2
85°	1	2	2	4	5	1
90°	0	0	0	0	0	



TEST NUMBER: P1312605

CATALOG NUMBER: LDSQA3D13R509050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	775.4	775.4	775.4	775.4	775.4	775.4	775.4	775.4	775.4	775.4	775.4
2.5°	969.7	971.8	975.0	966.5	961.2	957.0	949.5	947.4	929.4	921.9	914.5
5°	1077.0	1074.9	1077.0	1073.8	1071.7	1065.3	1058.9	1048.3	1036.6	1021.8	1004.8
7.5°	1080.2	1078.1	1082.3	1082.3	1086.6	1086.6	1086.6	1087.6	1081.2	1070.6	1055.8
10°	1045.1	1045.1	1049.4	1047.3	1054.7	1057.9	1065.3	1078.1	1084.4	1085.5	1081.2
12.5°	1027.1	1027.1	1028.1	1023.9	1026.0	1029.2	1037.7	1052.6	1067.4	1082.3	1090.8
15°	1099.3	1101.4	1086.6	1065.3	1049.4	1032.4	1027.1	1036.6	1052.6	1075.9	1095.1
17.5°	1344.7	1347.8	1331.9	1280.9	1232.1	1162.0	1099.3	1068.5	1051.5	1070.6	1096.1
20°	1688.8	1677.1	1649.5	1595.3	1524.2	1415.8	1318.1	1219.3	1124.8	1096.1	1104.6
22.5°	1932.0	1927.8	1905.5	1844.9	1783.3	1682.4	1558.1	1420.1	1283.1	1196.0	1150.3
25°	2012.7	2009.6	1989.4	1953.3	1919.3	1842.8	1731.3	1592.1	1448.7	1327.7	1213.0
27.5°	2073.3	2069.0	2037.2	1996.8	1961.8	1884.2	1782.3	1677.1	1545.4	1381.8	1205.5
30°	2205.0	2193.3	2148.7	2076.5	2009.6	1902.3	1789.7	1659.0	1480.6	1301.1	1129.0
32.5°	2260.2	2253.8	2215.6	2157.2	2083.9	1943.7	1772.7	1553.9	1319.2	1164.1	1038.8
35°	2248.5	2239.0	2199.7	2132.8	2043.5	1908.6	1680.3	1379.7	1188.5	1080.2	938.9
37.5°	2213.5	2199.7	2152.9	2074.3	1966.0	1789.7	1491.2	1238.4	1115.2	993.1	803.0
40°	2128.5	2106.2	2052.0	1970.3	1861.9	1630.4	1319.2	1153.5	1038.8	869.9	651.1
42.5°	1803.5	1791.8	1818.4	1804.6	1709.0	1436.0	1197.0	1075.9	917.7	703.1	471.6
45°	1187.5	1207.6	1255.4	1337.2	1356.3	1235.3	1097.2	948.5	755.2	520.4	271.9
47.5°	1099.3	1095.1	1106.7	1122.7	1125.9	1074.9	949.5	783.9	560.8	297.4	75.4
50°	1087.6	1081.2	1071.7	1052.6	1012.2	913.4	771.1	571.4	323.9	81.8	5.3
52.5°	859.3	852.9	852.9	825.3	773.2	677.6	532.1	314.4	90.3	5.3	4.2
55°	286.8	305.9	302.7	301.6	325.0	299.5	229.4	80.7	7.4	4.2	4.2
57.5°	5.3	5.3	5.3	9.6	14.9	21.2	12.7	6.4	4.2	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2
77.5°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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: P1312605

CATALOG NUMBER: LDSQA3D13R509050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	775.4	775.4	775.4	775.4	775.4	775.4	775.4	775.4
2.5°	897.5	882.6	854.0	772.2	681.9	578.9	508.8	500.3
5°	978.2	955.9	909.2	742.4	536.4	356.9	265.5	231.5
7.5°	1031.3	1001.6	944.2	693.6	390.9	188.0	100.9	80.7
10°	1063.2	1035.6	962.3	620.3	248.5	74.3	34.0	31.9
12.5°	1080.2	1053.6	968.7	532.1	140.2	34.0	26.6	26.6
15°	1091.9	1063.2	959.1	430.2	70.1	25.5	24.4	24.4
17.5°	1097.2	1062.1	931.5	323.9	37.2	23.4	23.4	23.4
20°	1100.4	1050.4	880.5	220.9	25.5	21.2	22.3	22.3
22.5°	1103.6	1021.8	813.6	140.2	20.2	20.2	21.2	21.2
25°	1097.2	971.8	719.1	85.0	18.1	19.1	20.2	21.2
27.5°	1051.5	896.4	604.4	52.0	15.9	18.1	20.2	21.2
30°	972.9	786.0	471.6	32.9	14.9	18.1	20.2	21.2
32.5°	870.9	659.6	336.7	20.2	14.9	18.1	20.2	21.2
35°	733.9	504.5	218.8	13.8	14.9	18.1	21.2	22.3
37.5°	579.9	352.6	117.9	10.6	14.9	18.1	21.2	22.3
40°	417.4	211.4	42.5	9.6	13.8	19.1	22.3	23.4
42.5°	244.3	78.6	7.4	8.5	13.8	19.1	22.3	23.4
45°	70.1	8.5	4.2	8.5	13.8	19.1	23.4	24.4
47.5°	5.3	3.2	4.2	8.5	13.8	19.1	23.4	25.5
50°	3.2	3.2	3.2	8.5	13.8	20.2	24.4	25.5
52.5°	4.2	4.2	4.2	8.5	13.8	20.2	24.4	25.5
55°	4.2	4.2	4.2	8.5	13.8	20.2	24.4	25.5
57.5°	4.2	4.2	4.2	8.5	13.8	19.1	24.4	25.5
60°	4.2	4.2	4.2	7.4	12.7	19.1	23.4	24.4
62.5°	4.2	4.2	4.2	7.4	12.7	18.1	23.4	23.4
65°	4.2	4.2	4.2	6.4	11.7	17.0	21.2	22.3
67.5°	4.2	4.2	4.2	6.4	10.6	15.9	20.2	21.2
70°	3.2	4.2	4.2	5.3	9.6	14.9	19.1	20.2
72.5°	3.2	3.2	4.2	5.3	8.5	12.7	17.0	18.1
75°	3.2	3.2	3.2	4.2	7.4	11.7	14.9	15.9
77.5°	3.2	3.2	3.2	4.2	6.4	9.6	13.8	13.8
80°	2.1	3.2	3.2	3.2	5.3	7.4	10.6	11.7
82.5°	2.1	2.1	2.1	3.2	4.2	6.4	8.5	8.5
85°	2.1	2.1	2.1	2.1	3.2	4.2	5.3	5.3
87.5°	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)