

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: P1316474

Luminaire Tested: LDSQA3D09R509740DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R509740DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

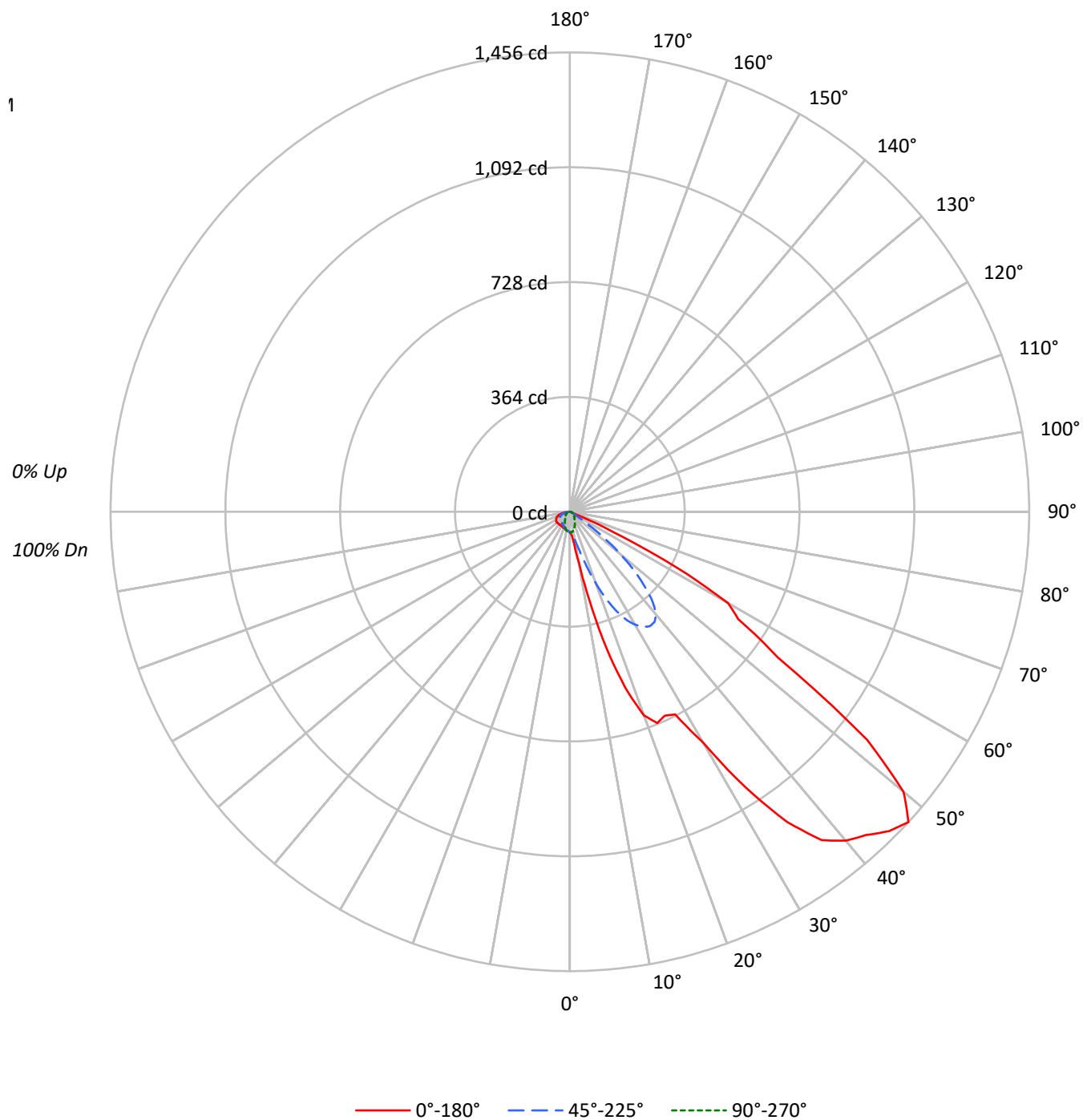
Lumens per Lamp: N/A
Luminaire Lumens: 821.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1316474

CATALOG NUMBER: LDSQA3D09R509740DE010 3LSQCA45R 1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1316474

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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11229	11229	11229	11229	11229
5°	13364	12499	11151	10667	10546
10°	28768	15494	10668	10300	10423
15°	79664	25407	9610	9860	10234
20°	125929	44573	8321	9494	10007
25°	135432	65483	7145	9159	10109
30°	168101	82211	6205	9028	10440
35°	252252	93033	5361	9104	11038
40°	305936	95661	4789	9398	11646
45°	348534	82031	4652	10010	12787
50°	369932	56614	4742	10824	14254
55°	241680	22790	4684	11710	15764
60°	199330	3892	4650	12710	17326
65°	60108	2038	4320	13570	19072
70°	2518	2165	4280	13948	20696
75°	2329	2329	4259	14173	22624
80°	2083	2083	4265	14083	23208
85°	1383	2766	5533	14030	22329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 371115 cd/sqm

TEST NUMBER: P1316474

CATALOG NUMBER: LDSQA3D09R509740DE010 3LSQCA45R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.8
10°-20°	38.9	4.7
20°-30°	99.9	12.2
30°-40°	179.5	21.9
40°-50°	239.8	29.2
50°-60°	182.6	22.2
60°-70°	55.4	6.8
70°-80°	13.2	1.6
80°-90°	4.8	0.6
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°	145.6	17.7
0°-40°	325.1	39.6
0°-60°	747.5	91.1
0°-90°	821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	821.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	65	65	65	65	65	
5°	77	72	64	62	61	10
15°	447	142	54	55	57	131
25°	713	345	38	48	53	340
35°	1200	442	26	43	52	737
45°	1431	337	19	41	52	1094
55°	805	76	16	39	52	801
65°	148	5	11	33	47	204
75°	4	4	6	21	34	4
85°	1	1	3	7	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1316474

CATALOG NUMBER: LDSQA3D09R509740DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
2.5°	69.5	69.5	69.5	69.5	69.5	69.5	68.8	68.8	68.8	67.4	65.9
5°	77.3	78.0	77.3	77.3	75.9	75.9	74.5	74.5	72.3	68.1	64.5
7.5°	101.4	100.7	100.0	97.2	95.0	90.1	87.9	84.4	78.0	68.1	63.1
10°	164.5	160.3	157.4	151.0	137.6	129.1	117.7	106.4	88.6	68.1	61.0
12.5°	285.8	285.1	276.6	255.3	236.1	209.9	182.2	154.6	109.2	66.7	58.1
15°	446.8	440.4	428.3	403.5	369.5	328.3	278.7	229.8	142.5	64.5	53.9
17.5°	584.3	576.5	567.3	542.5	503.5	451.7	392.1	324.8	187.9	61.7	49.6
20°	687.1	682.2	674.4	654.5	617.7	570.8	504.2	422.6	243.2	58.1	45.4
22.5°	724.7	724.0	725.4	718.3	699.9	663.0	599.2	514.1	297.8	53.9	41.1
25°	712.7	712.0	721.2	730.4	734.7	719.8	670.8	587.9	344.6	50.3	37.6
27.5°	724.0	721.9	717.6	719.1	731.1	739.6	716.9	644.6	385.1	45.4	34.0
30°	845.3	833.2	814.1	781.5	757.4	755.2	745.3	689.3	413.4	40.4	31.2
32.5°	1034.6	1019.7	985.0	924.7	867.3	823.3	792.1	726.9	433.3	35.5	27.7
35°	1199.8	1189.2	1148.8	1089.2	1007.0	924.7	868.0	782.2	442.5	31.2	25.5
37.5°	1311.9	1307.6	1267.9	1204.1	1120.4	1023.3	948.1	838.9	440.4	26.2	23.4
40°	1360.8	1348.1	1314.7	1260.8	1176.4	1089.2	1009.8	875.1	425.5	21.3	21.3
42.5°	1389.9	1375.7	1339.5	1288.5	1205.5	1112.6	1016.9	859.5	390.0	17.0	20.6
45°	1431.0	1416.1	1368.6	1314.0	1230.3	1122.6	989.2	804.2	336.8	12.8	19.1
47.5°	1455.8	1445.9	1410.5	1355.9	1254.5	1108.4	925.4	752.4	278.0	9.9	18.4
50°	1380.7	1370.7	1344.5	1306.9	1238.8	1060.9	869.4	668.7	211.3	7.8	17.7
52.5°	1188.5	1197.0	1202.0	1212.6	1163.0	954.5	785.7	602.1	142.5	6.4	16.3
55°	804.9	817.6	831.8	874.4	932.5	849.5	697.8	520.5	75.9	6.4	15.6
57.5°	632.5	628.3	624.0	621.2	666.6	700.6	613.4	416.3	32.6	6.4	14.2
60°	578.7	565.9	557.4	559.5	582.2	568.7	485.8	271.6	11.3	6.4	13.5
62.5°	379.4	389.3	408.5	441.1	425.5	365.2	282.2	107.8	5.7	6.4	12.1
65°	147.5	142.5	147.5	156.7	135.4	100.7	63.1	19.1	5.0	5.7	10.6
67.5°	19.9	17.7	13.5	8.5	7.8	7.1	5.7	5.0	5.0	5.7	9.9
70°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.3	4.3	5.0	8.5
72.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.0	7.1
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.3	6.4
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5	5.0
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	4.3
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.8	3.5
85°	0.7	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.8
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.1
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: P1316474

CATALOG NUMBER: LDSQA3D09R509740DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	65.2	65.2	65.2	65.2
2.5°	64.5	63.1	63.1	63.1
5°	63.1	61.7	61.7	61.0
7.5°	61.0	60.3	60.3	60.3
10°	59.6	58.9	59.6	59.6
12.5°	56.7	57.4	58.1	58.1
15°	53.9	55.3	56.7	57.4
17.5°	51.1	53.9	55.3	56.0
20°	48.2	51.8	53.9	54.6
22.5°	46.1	49.6	52.5	53.9
25°	43.3	48.2	51.8	53.2
27.5°	40.4	46.1	50.3	52.5
30°	38.3	45.4	50.3	52.5
32.5°	36.2	44.0	49.6	51.8
35°	34.7	43.3	49.6	52.5
37.5°	33.3	42.5	49.6	51.8
40°	32.6	41.8	49.6	51.8
42.5°	31.9	41.8	49.6	52.5
45°	30.5	41.1	49.6	52.5
47.5°	29.8	41.1	49.6	52.5
50°	29.1	40.4	49.6	53.2
52.5°	28.4	39.7	49.6	53.2
55°	26.9	39.0	48.9	52.5
57.5°	26.2	38.3	48.2	51.1
60°	24.8	36.9	46.8	50.3
62.5°	23.4	35.5	45.4	48.2
65°	21.3	33.3	43.3	46.8
67.5°	19.1	30.5	41.1	44.7
70°	17.0	27.7	38.3	41.1
72.5°	14.9	24.8	35.5	37.6
75°	12.8	21.3	31.2	34.0
77.5°	10.6	18.4	26.2	28.4
80°	7.8	14.2	21.3	23.4
82.5°	6.4	10.6	15.6	17.0
85°	4.3	7.1	9.9	11.3
87.5°	2.1	3.5	5.0	5.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)