

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: P1320157

Luminaire Tested: LDSQA3D13R509840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320157
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: LDSQA3D13R509840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

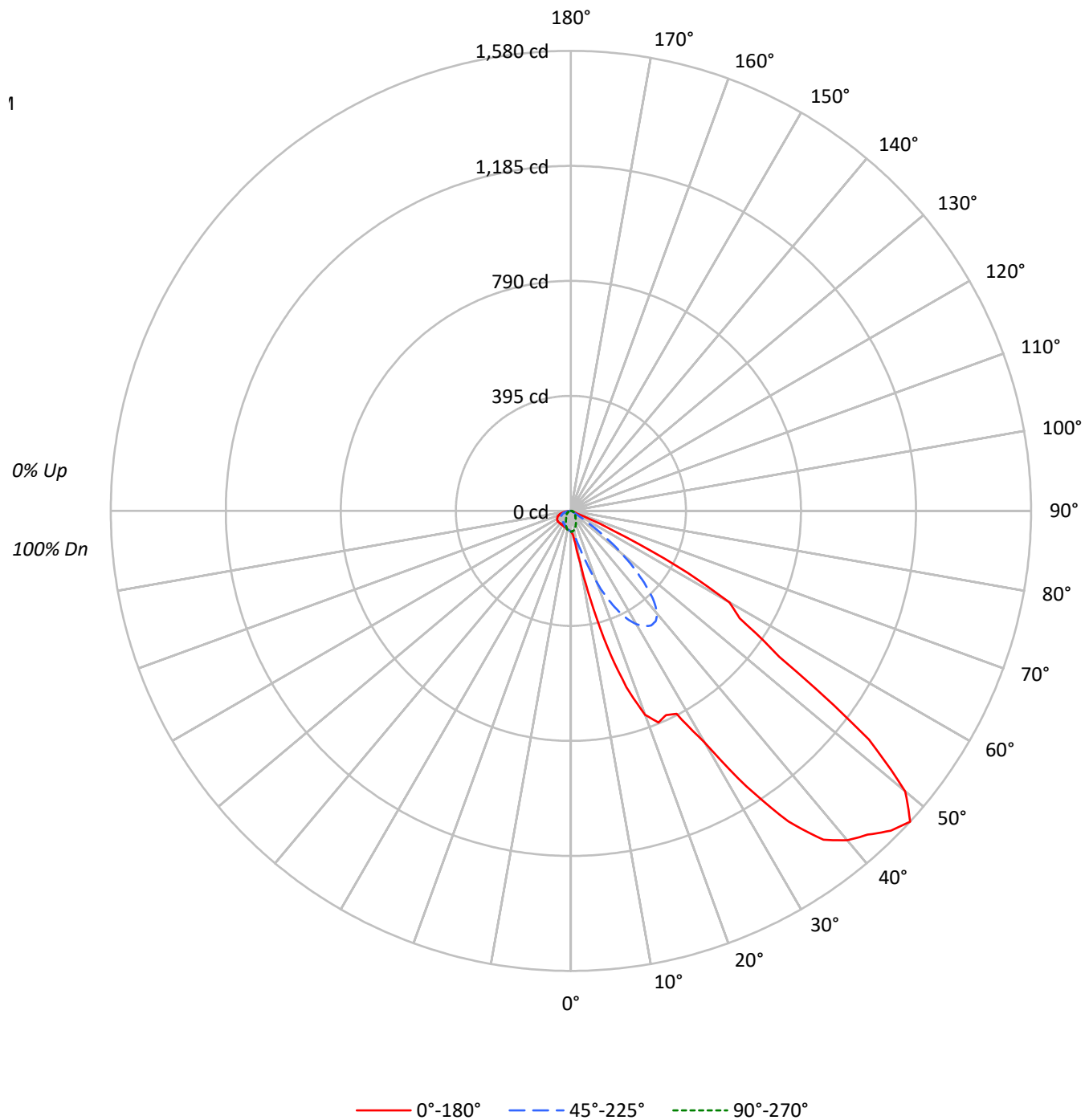
Lumens per Lamp: N/A
Luminaire Lumens: 891.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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

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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
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°	12193	12193	12193	12193	12193
5°	14505	13571	12102	11583	11445
10°	31216	16823	11577	11175	11297
15°	86439	27583	10430	10698	11108
20°	136669	48385	9035	10300	10868
25°	146967	71070	7753	9938	10965
30°	182439	89231	6742	9804	11315
35°	273760	100960	5824	9860	11963
40°	332015	103822	5193	10207	12635
45°	378248	89045	5066	10863	13859
50°	401468	61437	5144	11762	15460
55°	262278	24711	5074	12701	17085
60°	216312	4237	5029	13778	18807
65°	65243	2201	4686	14752	20702
70°	2719	2316	4633	15106	22458
75°	2529	2529	4591	15371	24554
80°	2281	2281	4562	15274	25191
85°	1581	2964	6126	15215	24305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 402776 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.8
10°-20°	42.2	4.7
20°-30°	108.5	12.2
30°-40°	194.8	21.9
40°-50°	260.2	29.2
50°-60°	198.2	22.2
60°-70°	60.2	6.8
70°-80°	14.4	1.6
80°-90°	5.2	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°	158.0	17.7
0°-40°	352.8	39.6
0°-60°	811.3	91.1
0°-90°	891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	71	71	71	71	71	
5°	84	78	70	67	66	11
15°	485	155	58	60	62	143
25°	773	374	41	52	58	369
35°	1302	480	28	47	57	799
45°	1553	366	21	45	57	1187
55°	874	82	17	42	57	869
65°	160	5	12	36	51	221
75°	4	4	7	23	37	4
85°	1	2	3	8	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
2.5°	75.4	75.4	75.4	75.4	75.4	75.4	74.7	74.7	74.7	73.1	71.6
5°	83.9	84.7	83.9	83.9	82.3	82.3	80.8	80.8	78.5	73.9	70.0
7.5°	110.1	109.3	108.5	105.4	103.1	97.7	95.4	91.6	84.7	73.9	68.5
10°	178.5	173.9	170.8	163.9	149.3	140.1	127.8	115.4	96.2	73.9	66.2
12.5°	310.1	309.4	300.1	277.1	256.3	227.8	197.8	167.8	118.5	72.3	63.1
15°	484.8	477.9	464.8	437.9	401.0	356.3	302.4	249.3	154.7	70.0	58.5
17.5°	634.1	625.7	615.7	588.7	546.4	490.2	425.6	352.5	203.9	67.0	53.9
20°	745.7	740.3	731.9	710.3	670.3	619.5	547.2	458.7	264.0	63.1	49.3
22.5°	786.5	785.8	787.3	779.6	759.6	719.6	650.3	558.0	323.2	58.5	44.6
25°	773.4	772.7	782.7	792.7	797.3	781.1	728.0	638.0	374.0	54.6	40.8
27.5°	785.8	783.4	778.8	780.4	793.4	802.7	778.1	699.6	417.9	49.3	36.9
30°	917.4	904.3	883.5	848.1	821.9	819.6	808.8	748.0	448.7	43.9	33.9
32.5°	1122.8	1106.7	1069.0	1003.5	941.2	893.5	859.6	788.8	470.2	38.5	30.0
35°	1302.1	1290.6	1246.7	1182.1	1092.8	1003.5	942.0	848.9	480.2	33.9	27.7
37.5°	1423.7	1419.1	1376.0	1306.8	1216.0	1110.5	1028.9	910.4	477.9	28.5	25.4
40°	1476.8	1463.0	1426.8	1368.3	1276.8	1182.1	1095.9	949.7	461.8	23.1	23.1
42.5°	1508.4	1493.0	1453.8	1398.3	1308.3	1207.5	1103.6	932.7	423.3	18.5	22.3
45°	1553.0	1536.9	1485.3	1426.1	1335.2	1218.3	1073.6	872.7	365.6	13.9	20.8
47.5°	1580.0	1569.2	1530.7	1471.5	1361.4	1202.9	1004.3	816.5	301.7	10.8	20.0
50°	1498.4	1487.6	1459.1	1418.4	1344.5	1151.3	943.5	725.7	229.3	8.5	19.2
52.5°	1289.8	1299.1	1304.5	1316.0	1262.1	1035.9	852.7	653.4	154.7	6.9	17.7
55°	873.5	887.3	902.7	948.9	1012.0	922.0	757.3	564.9	82.3	6.9	16.9
57.5°	686.5	681.9	677.2	674.2	723.4	760.4	665.7	451.8	35.4	6.9	15.4
60°	628.0	614.1	604.9	607.2	631.8	617.2	527.2	294.8	12.3	6.9	14.6
62.5°	411.7	422.5	443.3	478.7	461.8	396.3	306.3	117.0	6.2	6.9	13.1
65°	160.1	154.7	160.1	170.1	147.0	109.3	68.5	20.8	5.4	6.2	11.5
67.5°	21.5	19.2	14.6	9.2	8.5	7.7	6.2	5.4	5.4	6.2	10.8
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.6	4.6	5.4	9.2
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.4	7.7
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.6	6.9
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.8	5.4
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	4.6
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.1	3.8
85°	0.8	1.5	0.8	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.1
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3	2.3
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):

	112.5°	135°	157.5°	180°
0°	70.8	70.8	70.8	70.8
2.5°	70.0	68.5	68.5	68.5
5°	68.5	67.0	67.0	66.2
7.5°	66.2	65.4	65.4	65.4
10°	64.6	63.9	64.6	64.6
12.5°	61.6	62.3	63.1	63.1
15°	58.5	60.0	61.6	62.3
17.5°	55.4	58.5	60.0	60.8
20°	52.3	56.2	58.5	59.3
22.5°	50.0	53.9	56.9	58.5
25°	46.9	52.3	56.2	57.7
27.5°	43.9	50.0	54.6	56.9
30°	41.6	49.3	54.6	56.9
32.5°	39.2	47.7	53.9	56.2
35°	37.7	46.9	53.9	56.9
37.5°	36.2	46.2	53.9	56.2
40°	35.4	45.4	53.9	56.2
42.5°	34.6	45.4	53.9	56.9
45°	33.1	44.6	53.9	56.9
47.5°	32.3	44.6	53.9	56.9
50°	31.6	43.9	53.9	57.7
52.5°	30.8	43.1	53.9	57.7
55°	29.2	42.3	53.1	56.9
57.5°	28.5	41.6	52.3	55.4
60°	26.9	40.0	50.8	54.6
62.5°	25.4	38.5	49.3	52.3
65°	23.1	36.2	46.9	50.8
67.5°	20.8	33.1	44.6	48.5
70°	18.5	30.0	41.6	44.6
72.5°	16.2	26.9	38.5	40.8
75°	13.9	23.1	33.9	36.9
77.5°	11.5	20.0	28.5	30.8
80°	8.5	15.4	23.1	25.4
82.5°	6.9	11.5	16.9	18.5
85°	4.6	7.7	10.8	12.3
87.5°	2.3	3.8	5.4	6.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)