

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: P1320413

Luminaire Tested: LDSQA3D20R359840D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R359840D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

Summary

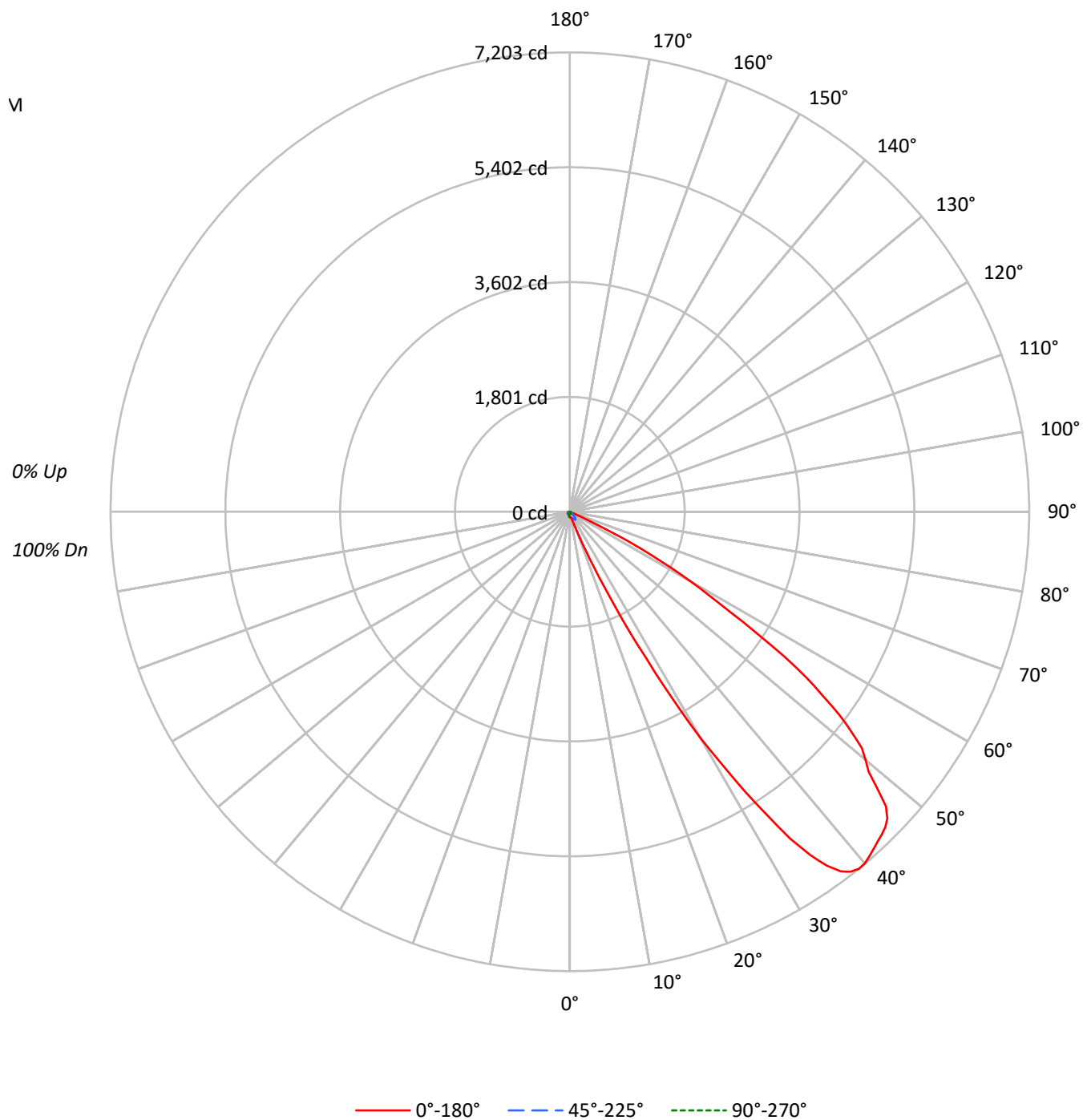
Lumens per Lamp: N/A
Luminaire Lumens: 1794.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14226	14226	14226	14226	14226
5°	15404	15127	14003	12603	12326
10°	16141	14725	12469	10755	10755
15°	23107	14442	10109	9236	9521
20°	57878	15432	8009	8009	8907
25°	268660	19687	6157	7392	8304
30°	816741	26728	4832	6761	8372
35°	1380322	30990	4079	6476	8179
40°	1618012	30576	3282	6565	8746
45°	1703967	21701	2752	7112	9474
50°	1621946	13021	2599	7368	10423
55°	1359101	5345	2913	8257	12161
60°	760880	1102	3341	9472	13399
65°	131342	652	3301	10555	15160
70°	2467	806	4079	11430	17121
75°	2129	1065	5390	12909	19430
80°	1587	1587	6447	14480	22514
85°	0	3162	12844	16006	25688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1716032 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.4
10°-20°	21.1	1.2
20°-30°	110.1	6.1
30°-40°	475.4	26.5
40°-50°	678.1	37.8
50°-60°	420.0	23.4
60°-70°	63.9	3.6
70°-80°	11.9	0.7
80°-90°	6.0	0.3
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°	138.7	7.7
0°-40°	614.1	34.2
0°-60°	1712.1	95.4
0°-90°	1794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1794.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	83	83	83	83	83	
5°	89	88	81	73	71	9
15°	130	81	57	52	53	47
25°	1414	104	32	39	44	846
35°	6565	147	19	31	39	3942
45°	6996	89	11	29	39	5286
55°	4526	18	10	28	40	3855
65°	322	2	8	26	37	658
75°	3	2	8	19	29	3
85°	0	2	6	8	13	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2.5°	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	82.6	81.0
5°	89.1	89.1	87.5	87.5	87.5	87.5	87.5	87.5	84.2	81.0	76.1
7.5°	90.7	90.7	89.1	89.1	89.1	89.1	87.5	85.8	82.6	76.1	71.3
10°	92.3	92.3	92.3	92.3	90.7	89.1	87.5	84.2	79.4	71.3	66.4
12.5°	103.6	103.6	102.0	98.8	95.5	92.3	89.1	82.6	72.9	64.8	59.9
15°	129.6	127.9	124.7	119.8	113.4	105.3	98.8	81.0	66.4	56.7	53.4
17.5°	181.4	178.1	173.3	157.1	142.5	127.9	115.0	81.0	59.9	50.2	47.0
20°	315.8	317.4	283.4	244.5	212.2	176.5	144.1	84.2	53.4	43.7	42.1
22.5°	659.1	633.2	552.2	458.3	349.8	270.5	204.1	92.3	47.0	37.2	37.2
25°	1413.8	1315.0	1119.1	845.4	596.0	422.7	296.4	103.6	42.1	32.4	34.0
27.5°	2581.4	2492.4	2098.8	1580.6	1049.4	638.1	401.6	118.2	37.2	27.5	30.8
30°	4107.0	3860.8	3347.4	2591.2	1753.9	976.5	539.3	134.4	30.8	24.3	29.2
31°	4583.1	4469.7	3844.6	2997.6	2055.1	1159.5	597.6	139.3	29.2	24.3	27.5
32°	5148.3	4947.5	4387.1	3443.0	2361.2	1323.1	667.2	144.1	27.5	21.1	27.5
33°	5653.6	5459.2	4777.4	3834.9	2670.5	1509.3	741.7	145.8	24.3	21.1	25.9
34°	6184.8	5919.2	5243.8	4244.6	2987.9	1710.2	809.7	147.4	22.7	19.4	25.9
35°	6565.3	6299.7	5645.5	4568.5	3261.6	1888.3	887.5	147.4	21.1	19.4	24.3
36°	6860.1	6626.9	5992.0	4902.1	3533.7	2048.6	949.0	147.4	17.8	17.8	24.3
37°	7062.5	6840.6	6225.2	5188.8	3741.0	2191.1	1004.1	147.4	16.2	17.8	24.3
38°	7161.3	6976.7	6450.3	5397.7	3941.8	2302.9	1047.8	144.1	14.6	16.2	22.7
39°	7203.4	7052.8	6588.0	5574.2	4092.4	2400.1	1080.2	140.9	13.0	16.2	22.7
40°	7196.9	7065.7	6665.7	5695.7	4213.9	2466.5	1098.0	136.0	11.3	14.6	22.7
41°	7159.7	7046.3	6706.2	5799.3	4286.7	2511.8	1102.9	131.2	9.7	14.6	21.1
42°	7117.6	7013.9	6719.2	5854.4	4333.7	2526.4	1089.9	124.7	9.7	13.0	21.1
43°	7073.8	6978.3	6719.2	5872.2	4345.0	2516.7	1068.8	113.4	8.1	13.0	21.1
44°	7038.2	6947.5	6698.1	5867.3	4320.7	2479.4	1030.0	100.4	6.5	13.0	21.1
45°	6996.1	6907.0	6670.6	5836.6	4273.8	2416.2	981.4	89.1	4.9	11.3	21.1
46°	6921.6	6852.0	6622.0	5773.4	4199.3	2328.8	919.9	81.0	3.2	11.3	19.4
47°	6777.5	6717.6	6528.1	5679.5	4100.5	2225.2	856.7	72.9	3.2	11.3	19.4
48°	6487.6	6486.0	6340.2	5504.6	3943.4	2095.6	790.3	64.8	3.2	11.3	19.4
49°	6207.4	6178.3	5996.9	5196.9	3718.3	1940.1	720.7	58.3	1.6	11.3	19.4
50°	6053.6	5990.4	5692.4	4834.1	3430.0	1724.7	646.2	48.6	1.6	9.7	19.4
51°	5893.2	5802.6	5451.1	4507.0	3086.7	1517.4	565.2	38.9	1.6	9.7	17.8
52°	5603.4	5517.5	5124.0	4194.4	2753.1	1305.3	487.5	32.4	1.6	9.7	19.4
53°	5290.8	5167.7	4740.2	3851.1	2460.0	1117.4	408.1	27.5	1.6	9.7	17.8
54°	4897.3	4842.2	4351.5	3430.0	2116.6	936.1	335.2	22.7	1.6	9.7	17.8
55°	4526.4	4445.4	3935.3	2999.3	1805.7	767.6	280.2	17.8	1.6	9.7	17.8
56°	4053.5	3932.1	3454.3	2604.1	1489.9	618.6	236.4	14.6	1.6	9.7	17.8
57°	3490.0	3360.4	2983.1	2165.2	1169.3	471.3	197.6	11.3	1.6	9.7	17.8
58°	2952.3	2840.5	2435.7	1671.3	881.0	327.1	163.6	8.1	1.6	8.1	17.8
59°	2550.7	2427.6	2026.0	1285.9	612.2	241.3	123.1	6.5	1.6	9.7	17.8
60°	2209.0	2050.2	1630.8	996.0	437.3	173.3	90.7	3.2	3.2	9.7	17.8
62.5°	1272.9	1123.9	779.0	404.9	179.8	89.1	43.7	1.6	3.2	9.7	17.8
65°	322.3	286.6	186.2	87.5	50.2	30.8	16.2	1.6	3.2	8.1	16.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	11.3	11.3	11.3	9.7	8.1	6.5	3.2	1.6	3.2	8.1	16.2
70°	4.9	4.9	4.9	3.2	3.2	1.6	1.6	1.6	3.2	8.1	14.6
72.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.9	8.1	13.0
75°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.9	8.1	13.0
77.5°	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.5	11.3
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.5	9.7
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.5	8.1
85°	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	4.9	6.5	6.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	6.5	4.9
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):

	135°	157.5°	180°
0°	82.6	82.6	82.6
2.5°	77.7	77.7	77.7
5°	72.9	72.9	71.3
7.5°	68.0	66.4	66.4
10°	61.5	61.5	61.5
12.5°	56.7	56.7	56.7
15°	51.8	53.4	53.4
17.5°	47.0	50.2	50.2
20°	43.7	47.0	48.6
22.5°	40.5	43.7	45.3
25°	38.9	42.1	43.7
27.5°	35.6	40.5	43.7
30°	34.0	38.9	42.1
31°	34.0	38.9	40.5
32°	32.4	38.9	40.5
33°	32.4	38.9	40.5
34°	32.4	37.2	40.5
35°	30.8	37.2	38.9
36°	30.8	37.2	38.9
37°	30.8	37.2	40.5
38°	30.8	37.2	38.9
39°	29.2	37.2	38.9
40°	29.2	37.2	38.9
41°	29.2	37.2	38.9
42°	29.2	37.2	38.9
43°	29.2	37.2	38.9
44°	29.2	35.6	38.9
45°	29.2	35.6	38.9
46°	29.2	37.2	38.9
47°	29.2	37.2	40.5
48°	29.2	35.6	38.9
49°	27.5	35.6	38.9
50°	27.5	35.6	38.9
51°	27.5	37.2	40.5
52°	27.5	37.2	40.5
53°	27.5	37.2	40.5
54°	27.5	37.2	38.9
55°	27.5	37.2	40.5
56°	27.5	37.2	38.9
57°	27.5	37.2	38.9
58°	27.5	35.6	38.9
59°	27.5	35.6	38.9
60°	27.5	35.6	38.9
62.5°	25.9	35.6	38.9
65°	25.9	34.0	37.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	24.3	34.0	35.6
70°	22.7	32.4	34.0
72.5°	21.1	30.8	32.4
75°	19.4	27.5	29.2
77.5°	16.2	24.3	27.5
80°	14.6	21.1	22.7
82.5°	11.3	17.8	19.4
85°	8.1	13.0	13.0
87.5°	3.2	6.5	6.5
90°	0.0	0.0	0.0

(END OF REPORT)