

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: P1323659

Luminaire Tested: LDSQA3D05R509030D2WDE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323659
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: LDSQA3D05R509030D2WDE010 3LSQCA45R 1MB
Description: 3in Adjustable Dim to Warm LED luminaire with, R50 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

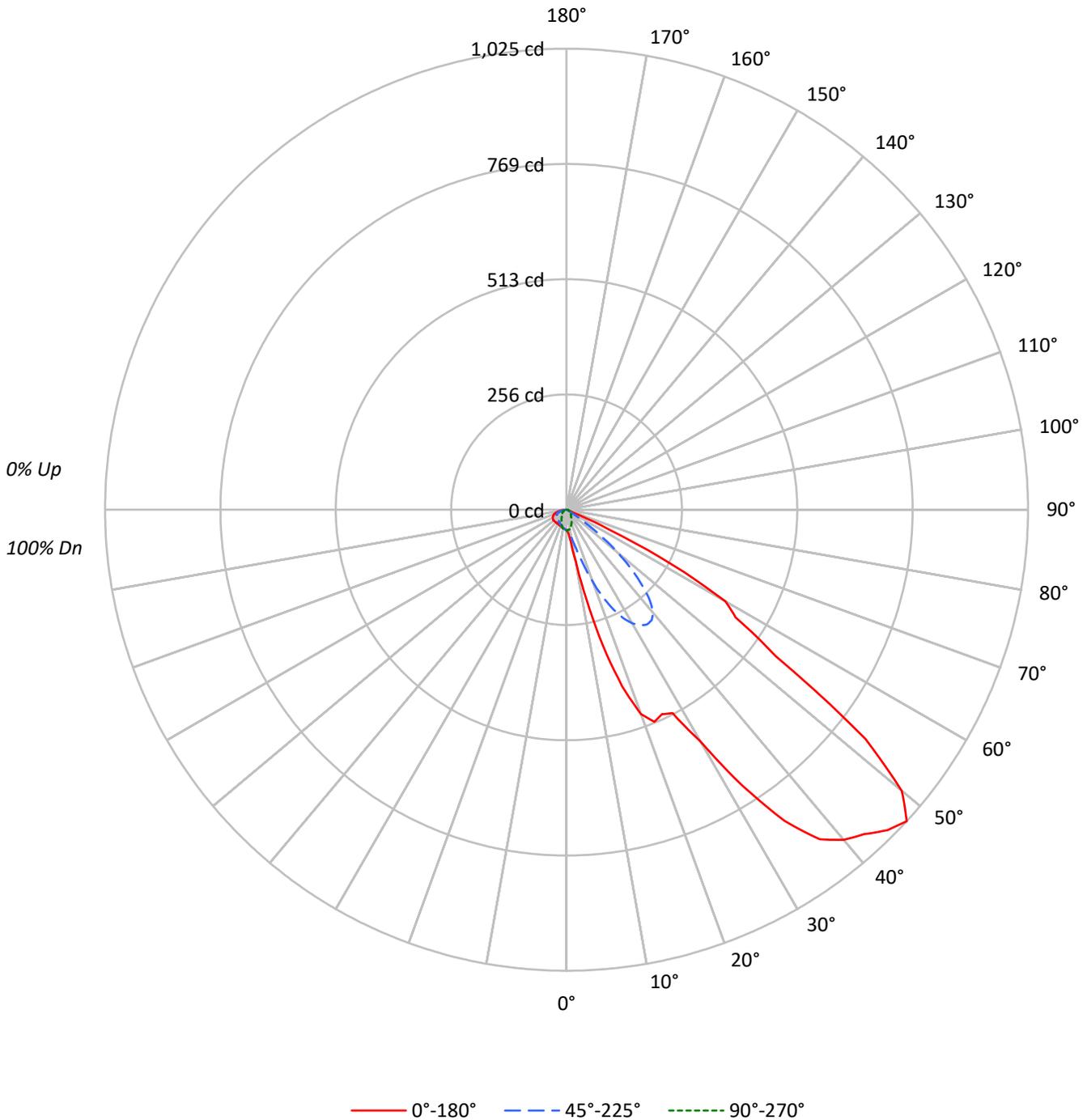
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 578.0 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7905	7905	7905	7905	7905
5°	9405	8800	7849	7503	7417
10°	20251	10912	7502	7240	7327
15°	56075	17883	6757	6936	7203
20°	88669	31377	5865	6671	7038
25°	95336	46100	5036	6442	7107
30°	118345	57890	4375	6364	7338
35°	177594	65491	3784	6412	7758
40°	215378	67334	3372	6632	8183
45°	245386	57748	3288	7063	8987
50°	260429	39868	3349	7636	10021
55°	170128	16034	3303	8257	11080
60°	140327	2756	3272	8956	12193
65°	42300	1426	3056	9577	13407
70°	1762	1511	3021	9819	14603
75°	1664	1664	2994	9981	15970
80°	1488	1488	2975	9918	16365
85°	988	1976	3952	9880	15808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 261269 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.8
10°-20°	27.4	4.7
20°-30°	70.4	12.2
30°-40°	126.4	21.9
40°-50°	168.8	29.2
50°-60°	128.6	22.2
60°-70°	39.0	6.8
70°-80°	9.3	1.6
80°-90°	3.4	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°	102.5	17.7
0°-40°	228.9	39.6
0°-60°	526.3	91.0
0°-90°	578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	578.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	54	51	45	43	43	7
15°	314	100	38	39	40	93
25°	502	243	26	34	37	239
35°	845	312	18	30	37	519
45°	1008	237	14	29	37	770
55°	567	53	11	28	37	564
65°	104	4	8	24	33	144
75°	2	2	4	15	24	3
85°	0	1	2	5	8	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°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
2.5°	48.9	48.9	48.9	48.9	48.9	48.9	48.4	48.4	48.4	47.4	46.4
5°	54.4	54.9	54.4	54.4	53.4	53.4	52.4	52.4	50.9	47.9	45.4
7.5°	71.4	70.9	70.4	68.4	66.9	63.4	61.9	59.4	54.9	47.9	44.4
10°	115.8	112.8	110.8	106.3	96.9	90.9	82.9	74.9	62.4	47.9	42.9
12.5°	201.2	200.7	194.7	179.7	166.2	147.8	128.3	108.8	76.9	46.9	40.9
15°	314.5	310.0	301.5	284.1	260.1	231.1	196.2	161.8	100.3	45.4	37.9
17.5°	411.4	405.9	399.4	381.9	354.5	318.0	276.1	228.7	132.3	43.4	34.9
20°	483.8	480.3	474.8	460.8	434.8	401.9	355.0	297.5	171.2	40.9	32.0
22.5°	510.2	509.7	510.7	505.7	492.8	466.8	421.9	361.9	209.7	37.9	29.0
25°	501.7	501.2	507.7	514.2	517.2	506.7	472.3	413.9	242.6	35.4	26.5
27.5°	509.7	508.2	505.2	506.2	514.7	520.7	504.7	453.8	271.1	32.0	24.0
30°	595.1	586.6	573.1	550.2	533.2	531.7	524.7	485.3	291.1	28.5	22.0
32.5°	728.4	717.9	693.4	651.0	610.6	579.6	557.7	511.7	305.0	25.0	19.5
35°	844.7	837.2	808.8	766.8	708.9	651.0	611.1	550.7	311.5	22.0	18.0
37.5°	923.6	920.6	892.6	847.7	788.8	720.4	667.5	590.6	310.0	18.5	16.5
40°	958.0	949.1	925.6	887.7	828.2	766.8	710.9	616.1	299.5	15.0	15.0
42.5°	978.5	968.5	943.1	907.1	848.7	783.3	715.9	605.1	274.6	12.0	14.5
45°	1007.5	997.0	963.5	925.1	866.2	790.3	696.4	566.1	237.1	9.0	13.5
47.5°	1024.9	1018.0	993.0	954.5	883.2	780.3	651.5	529.7	195.7	7.0	13.0
50°	972.0	965.0	946.6	920.1	872.2	746.9	612.1	470.8	148.8	5.5	12.5
52.5°	836.7	842.7	846.2	853.7	818.8	672.0	553.2	423.9	100.3	4.5	11.5
55°	566.6	575.6	585.6	615.6	656.5	598.1	491.3	366.4	53.4	4.5	11.0
57.5°	445.3	442.3	439.3	437.3	469.3	493.3	431.8	293.1	23.0	4.5	10.0
60°	407.4	398.4	392.4	393.9	409.9	400.4	342.0	191.2	8.0	4.5	9.5
62.5°	267.1	274.1	287.6	310.5	299.5	257.1	198.7	75.9	4.0	4.5	8.5
65°	103.8	100.3	103.8	110.3	95.4	70.9	44.4	13.5	3.5	4.0	7.5
67.5°	14.0	12.5	9.5	6.0	5.5	5.0	4.0	3.5	3.5	4.0	7.0
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0	3.5	6.0
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	5.0
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	4.5
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	3.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	2.5
85°	0.5	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	1.5
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°	45.9	45.9	45.9	45.9
2.5°	45.4	44.4	44.4	44.4
5°	44.4	43.4	43.4	42.9
7.5°	42.9	42.4	42.4	42.4
10°	41.9	41.4	41.9	41.9
12.5°	39.9	40.4	40.9	40.9
15°	37.9	38.9	39.9	40.4
17.5°	35.9	37.9	38.9	39.4
20°	33.9	36.4	37.9	38.4
22.5°	32.5	34.9	36.9	37.9
25°	30.5	33.9	36.4	37.4
27.5°	28.5	32.5	35.4	36.9
30°	27.0	32.0	35.4	36.9
32.5°	25.5	31.0	34.9	36.4
35°	24.5	30.5	34.9	36.9
37.5°	23.5	30.0	34.9	36.4
40°	23.0	29.5	34.9	36.4
42.5°	22.5	29.5	34.9	36.9
45°	21.5	29.0	34.9	36.9
47.5°	21.0	29.0	34.9	36.9
50°	20.5	28.5	34.9	37.4
52.5°	20.0	28.0	34.9	37.4
55°	19.0	27.5	34.4	36.9
57.5°	18.5	27.0	33.9	35.9
60°	17.5	26.0	32.9	35.4
62.5°	16.5	25.0	32.0	33.9
65°	15.0	23.5	30.5	32.9
67.5°	13.5	21.5	29.0	31.5
70°	12.0	19.5	27.0	29.0
72.5°	10.5	17.5	25.0	26.5
75°	9.0	15.0	22.0	24.0
77.5°	7.5	13.0	18.5	20.0
80°	5.5	10.0	15.0	16.5
82.5°	4.5	7.5	11.0	12.0
85°	3.0	5.0	7.0	8.0
87.5°	1.5	2.5	3.5	4.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)