

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: P1325301

Luminaire Tested: LDSQA3D05R50W2N902765DE010 3LSQCA30R 1MW_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325301
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: LDSQA3D05R50W2N902765DE010 3LSQCA30R 1MW_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

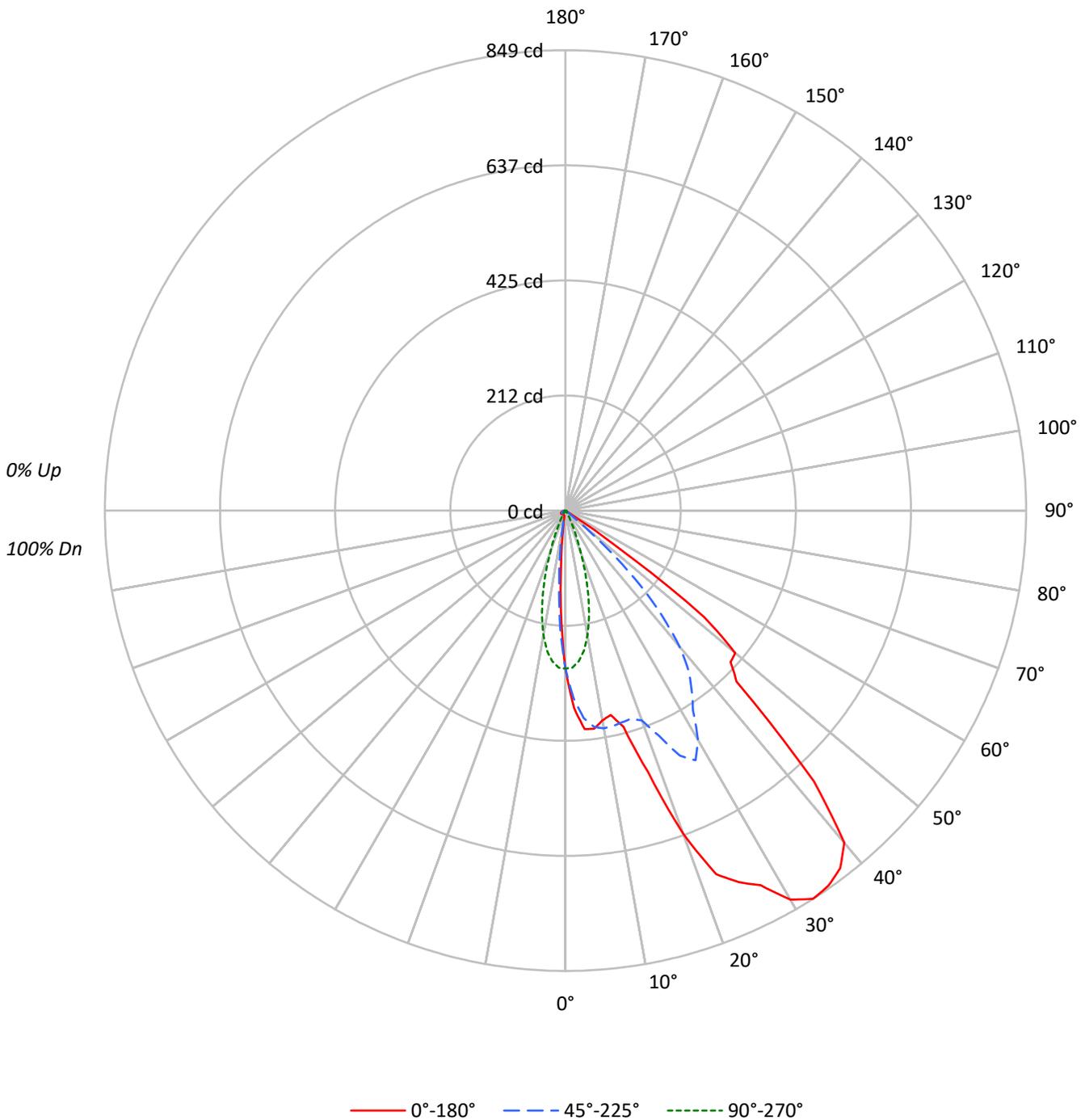
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 453.0 lumens
Efficiency: N/A
Efficacy: 76.8 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): 5.9
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	102	100	
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39	39	
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	50151	50151	50151	50151	50151
5°	69930	66352	48216	23183	15041
10°	68658	71298	40747	4879	2099
15°	73619	72050	28813	1712	1640
20°	116252	75455	15212	1466	1540
25°	143660	94766	6062	1368	1520
30°	164700	97186	2466	1352	1591
35°	177573	85296	1093	1430	1766
40°	179744	73449	809	1619	1978
45°	108628	47616	779	1754	2241
50°	109450	8225	857	2036	2572
55°	32338	480	961	2282	2883
60°	551	551	964	2480	3169
65°	489	489	978	2608	3423
70°	604	604	1007	2820	3827
75°	532	532	1065	2928	3993
80°	397	793	1190	2777	4364
85°	790	1581	1581	3162	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 124094 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	5.2
10°-20°	58.5	12.9
20°-30°	109.6	24.2
30°-40°	131.0	28.9
40°-50°	93.9	20.7
50°-60°	28.9	6.4
60°-70°	3.8	0.8
70°-80°	2.8	0.6
80°-90°	1.1	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°	191.6	42.3
0°-40°	322.6	71.2
0°-60°	445.4	98.3
0°-90°	453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	453.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	291	291	291	291	291	
5°	404	384	279	134	87	38
15°	413	404	162	10	9	132
25°	756	499	32	7	8	348
35°	845	406	5	7	8	524
45°	446	196	3	7	9	410
55°	108	2	3	8	10	139
65°	1	1	2	6	8	1
75°	1	1	2	4	6	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	291.2	291.2	291.2	291.2	291.2	291.2	291.2	291.2	291.2	291.2	291.2
2.5°	364.3	365.0	366.2	363.1	361.1	359.5	356.7	355.9	349.1	346.3	343.5
5°	404.5	403.7	404.5	403.3	402.6	400.2	397.8	393.8	389.4	383.8	377.4
7.5°	405.7	404.9	406.5	406.5	408.1	408.1	408.1	408.5	406.1	402.2	396.6
10°	392.6	392.6	394.2	393.4	396.2	397.4	400.2	404.9	407.3	407.7	406.1
12.5°	385.8	385.8	386.2	384.6	385.4	386.6	389.8	395.4	401.0	406.5	409.7
15°	412.9	413.7	408.1	400.2	394.2	387.8	385.8	389.4	395.4	404.1	411.3
17.5°	505.1	506.3	500.3	481.1	462.8	436.5	412.9	401.4	395.0	402.2	411.7
20°	634.3	630.0	619.6	599.2	572.5	531.8	495.1	458.0	422.5	411.7	414.9
22.5°	725.7	724.1	715.7	693.0	669.9	632.0	585.3	533.4	481.9	449.2	432.1
25°	756.0	754.8	747.3	733.7	720.9	692.2	650.3	598.0	544.2	498.7	455.6
27.5°	778.8	777.2	765.2	750.0	736.9	707.8	669.5	630.0	580.5	519.0	452.8
30°	828.2	823.9	807.1	780.0	754.8	714.5	672.2	623.2	556.1	488.7	424.1
32.5°	849.0	846.6	832.2	810.3	782.8	730.1	665.9	583.7	495.5	437.3	390.2
35°	844.6	841.0	826.2	801.1	767.6	716.9	631.2	518.2	446.4	405.7	352.7
37.5°	831.4	826.2	808.7	779.2	738.5	672.2	560.1	465.2	418.9	373.0	301.6
40°	799.5	791.1	770.8	740.1	699.4	612.4	495.5	433.3	390.2	326.7	244.6
42.5°	677.4	673.0	683.0	677.8	641.9	539.4	449.6	404.1	344.7	264.1	177.1
45°	446.0	453.6	471.6	502.3	509.5	464.0	412.1	356.3	283.7	195.5	102.1
47.5°	412.9	411.3	415.7	421.7	422.9	403.7	356.7	294.4	210.7	111.7	28.3
50°	408.5	406.1	402.6	395.4	380.2	343.1	289.6	214.6	121.7	30.7	2.0
52.5°	322.8	320.4	320.4	310.0	290.4	254.5	199.9	118.1	33.9	2.0	1.6
55°	107.7	114.9	113.7	113.3	122.1	112.5	86.2	30.3	2.8	1.6	1.6
57.5°	2.0	2.0	2.0	3.6	5.6	8.0	4.8	2.4	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2
77.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	291.2	291.2	291.2	291.2	291.2	291.2	291.2	291.2
2.5°	337.1	331.5	320.8	290.0	256.1	217.4	191.1	187.9
5°	367.4	359.1	341.5	278.9	201.5	134.1	99.7	87.0
7.5°	387.4	376.2	354.7	260.5	146.8	70.6	37.9	30.3
10°	399.4	389.0	361.5	233.0	93.4	27.9	12.8	12.0
12.5°	405.7	395.8	363.9	199.9	52.7	12.8	10.0	10.0
15°	410.1	399.4	360.3	161.6	26.3	9.6	9.2	9.2
17.5°	412.1	399.0	349.9	121.7	14.0	8.8	8.8	8.8
20°	413.3	394.6	330.7	83.0	9.6	8.0	8.4	8.4
22.5°	414.5	383.8	305.6	52.7	7.6	7.6	8.0	8.0
25°	412.1	365.0	270.1	31.9	6.8	7.2	7.6	8.0
27.5°	395.0	336.7	227.0	19.5	6.0	6.8	7.6	8.0
30°	365.4	295.2	177.1	12.4	5.6	6.8	7.6	8.0
32.5°	327.1	247.8	126.5	7.6	5.6	6.8	7.6	8.0
35°	275.7	189.5	82.2	5.2	5.6	6.8	8.0	8.4
37.5°	217.8	132.5	44.3	4.0	5.6	6.8	8.0	8.4
40°	156.8	79.4	16.0	3.6	5.2	7.2	8.4	8.8
42.5°	91.8	29.5	2.8	3.2	5.2	7.2	8.4	8.8
45°	26.3	3.2	1.6	3.2	5.2	7.2	8.8	9.2
47.5°	2.0	1.2	1.6	3.2	5.2	7.2	8.8	9.6
50°	1.2	1.2	1.2	3.2	5.2	7.6	9.2	9.6
52.5°	1.6	1.6	1.6	3.2	5.2	7.6	9.2	9.6
55°	1.6	1.6	1.6	3.2	5.2	7.6	9.2	9.6
57.5°	1.6	1.6	1.6	3.2	5.2	7.2	9.2	9.6
60°	1.6	1.6	1.6	2.8	4.8	7.2	8.8	9.2
62.5°	1.6	1.6	1.6	2.8	4.8	6.8	8.8	8.8
65°	1.6	1.6	1.6	2.4	4.4	6.4	8.0	8.4
67.5°	1.6	1.6	1.6	2.4	4.0	6.0	7.6	8.0
70°	1.2	1.6	1.6	2.0	3.6	5.6	7.2	7.6
72.5°	1.2	1.2	1.6	2.0	3.2	4.8	6.4	6.8
75°	1.2	1.2	1.2	1.6	2.8	4.4	5.6	6.0
77.5°	1.2	1.2	1.2	1.6	2.4	3.6	5.2	5.2
80°	0.8	1.2	1.2	1.2	2.0	2.8	4.0	4.4
82.5°	0.8	0.8	0.8	1.2	1.6	2.4	3.2	3.2
85°	0.8	0.8	0.8	0.8	1.2	1.6	2.0	2.0
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)