

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: P1316321

Luminaire Tested: LDSQA3D05R559740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R559740DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

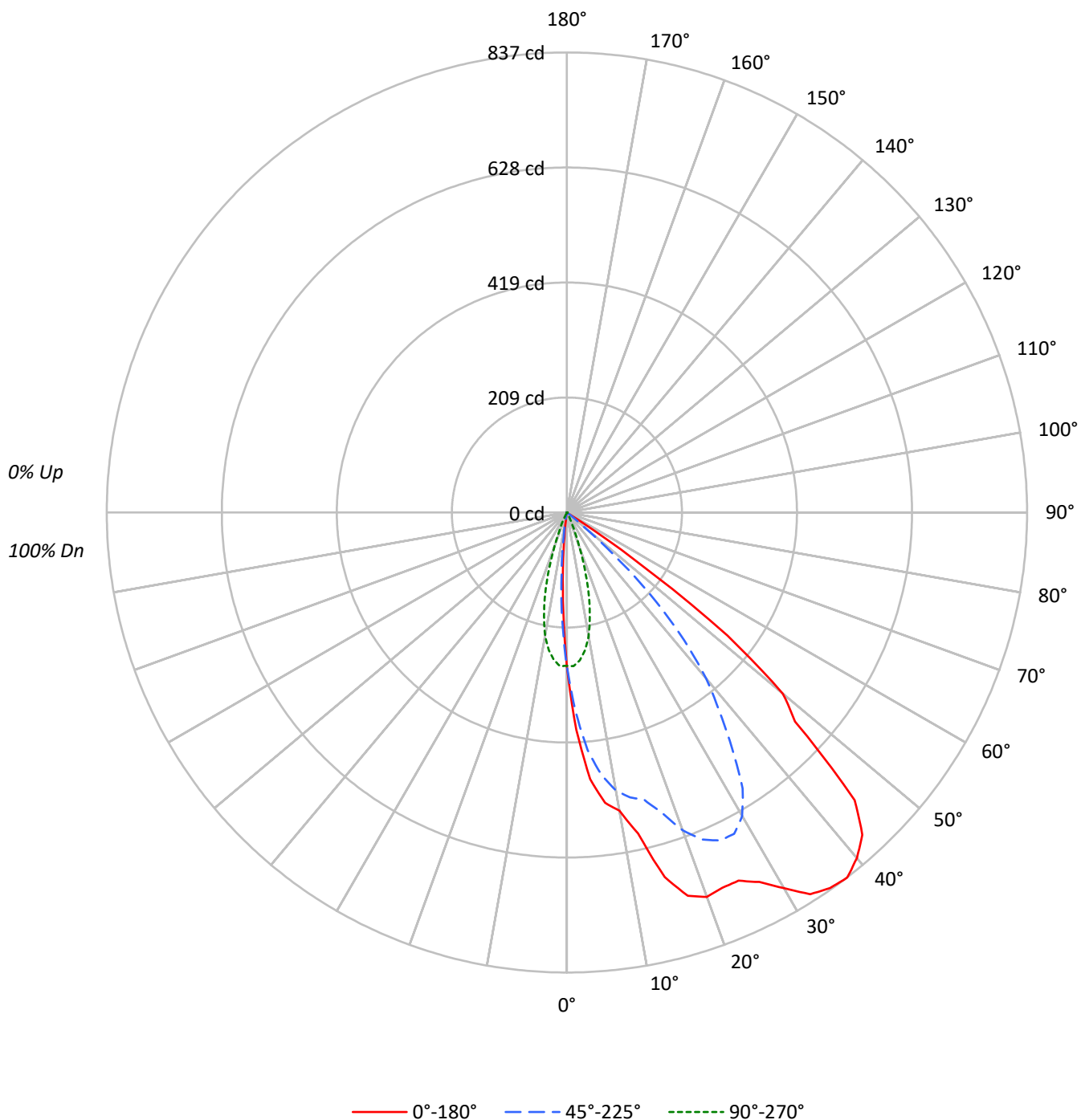
Lumens per Lamp: N/A
Luminaire Lumens: 516.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82		
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73		
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	48016	48016	48016	48016	48016
5°	84176	75030	46609	19363	11151
10°	96341	89801	39855	2116	769
15°	122419	96406	27315	428	267
20°	136412	112788	12005	0	0
25°	140430	125133	3401	0	0
30°	156905	126817	477	0	0
35°	175344	110105	0	0	0
40°	184465	88624	0	0	0
45°	180356	55970	0	0	0
50°	137341	11441	0	0	0
55°	44979	0	0	0	0
60°	0	0	0	0	0
65°	0	204	204	0	0
70°	0	252	252	0	0
75°	0	333	333	0	0
80°	0	496	992	496	0
85°	0	988	988	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 180356 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	4.9
10°-20°	74.7	14.5
20°-30°	121.4	23.5
30°-40°	144.3	28.0
40°-50°	118.0	22.9
50°-60°	31.3	6.1
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.4	0.1
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°	221.6	42.9
0°-40°	365.8	70.9
0°-60°	515.1	99.8
0°-90°	516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	516.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	279	279	279	279	279	
5°	487	434	270	112	64	48
15°	687	541	153	2	2	192
25°	739	658	18	0	0	348
35°	834	524	0	0	0	519
45°	740	230	0	0	0	532
55°	150	0	0	0	0	168
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8
2.5°	395.7	392.8	393.3	391.8	393.3	387.0	380.2	373.9	369.0	362.2	321.0
5°	486.9	482.0	480.5	478.6	476.7	468.9	462.6	454.8	445.6	434.0	358.3
7.5°	532.9	529.0	527.1	528.1	523.7	520.8	512.6	503.8	494.1	481.5	386.5
10°	550.9	547.0	546.5	546.0	545.5	543.6	539.7	531.9	523.2	513.5	402.5
12.5°	597.9	589.2	583.3	576.6	568.3	557.6	548.9	542.1	538.7	531.0	409.7
15°	686.6	678.4	672.1	663.4	647.8	625.1	604.2	577.5	554.3	540.7	406.8
17.5°	731.2	727.4	722.0	716.2	705.5	689.1	667.7	639.6	610.0	571.7	392.8
20°	744.3	742.4	738.5	736.1	728.8	717.2	702.6	680.8	653.2	615.4	371.0
22.5°	739.0	740.5	742.4	748.7	749.7	741.4	727.9	707.0	678.9	644.0	337.5
25°	739.0	738.0	738.0	751.1	759.4	755.5	745.8	726.9	698.3	658.5	296.3
27.5°	757.9	752.1	740.0	753.6	767.1	765.7	756.9	734.6	702.6	659.0	245.8
30°	789.0	776.3	756.5	769.1	781.7	776.3	762.3	733.7	692.9	637.7	184.3
32.5°	823.4	817.6	807.4	815.6	813.7	792.3	767.1	727.4	673.1	595.0	124.1
35°	834.0	835.0	828.2	826.8	815.6	793.8	767.1	709.4	631.4	523.7	73.7
37.5°	837.4	837.9	827.3	813.7	797.2	771.5	739.5	672.6	554.3	454.8	39.3
40°	820.5	820.0	802.5	786.0	767.6	742.4	695.8	595.0	481.0	394.2	14.1
42.5°	795.3	789.0	772.5	752.1	729.8	698.3	625.5	502.4	418.0	315.7	1.0
45°	740.5	734.6	721.5	699.7	675.0	630.4	515.5	431.6	339.9	229.8	0.0
47.5°	563.0	560.1	573.6	576.6	576.1	525.2	430.1	352.0	249.7	133.8	0.0
50°	512.6	508.7	495.1	477.6	446.6	403.9	344.8	260.9	146.4	42.7	0.0
52.5°	368.0	380.7	383.6	370.5	341.4	299.2	237.6	150.3	50.9	0.0	0.0
55°	149.8	142.1	147.9	155.2	161.0	147.9	109.6	53.3	0.5	0.0	0.0
57.5°	0.0	0.5	2.9	6.8	11.2	14.1	15.0	1.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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):

	90°	112.5°	135°	157.5°	180°
0°	278.8	278.8	278.8	278.8	278.8
2.5°	279.8	236.6	194.9	172.1	161.0
5°	269.6	180.9	112.0	77.6	64.5
7.5°	252.6	124.1	44.6	18.4	13.1
10°	227.9	71.3	12.1	4.8	4.4
12.5°	192.5	32.5	4.4	3.4	3.4
15°	153.2	11.2	2.4	1.9	1.5
17.5°	107.7	2.9	1.0	0.0	0.0
20°	65.5	0.5	0.0	0.0	0.0
22.5°	36.4	0.0	0.0	0.0	0.0
25°	17.9	0.0	0.0	0.0	0.0
27.5°	7.8	0.0	0.0	0.0	0.0
30°	2.4	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.5	0.0	0.0	0.0	0.0
65°	0.5	0.5	0.0	0.0	0.0
67.5°	0.5	0.5	0.0	0.0	0.0
70°	0.5	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	0.0	0.0	0.0
75°	0.5	0.5	0.0	0.0	0.0
77.5°	1.0	0.5	0.5	0.0	0.0
80°	1.0	0.5	0.5	0.0	0.0
82.5°	1.0	0.5	0.5	0.0	0.0
85°	0.5	0.5	0.5	0.0	0.0
87.5°	1.0	0.5	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)