

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: P1319312

Luminaire Tested: LDSQA3D13R709835DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R709835DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

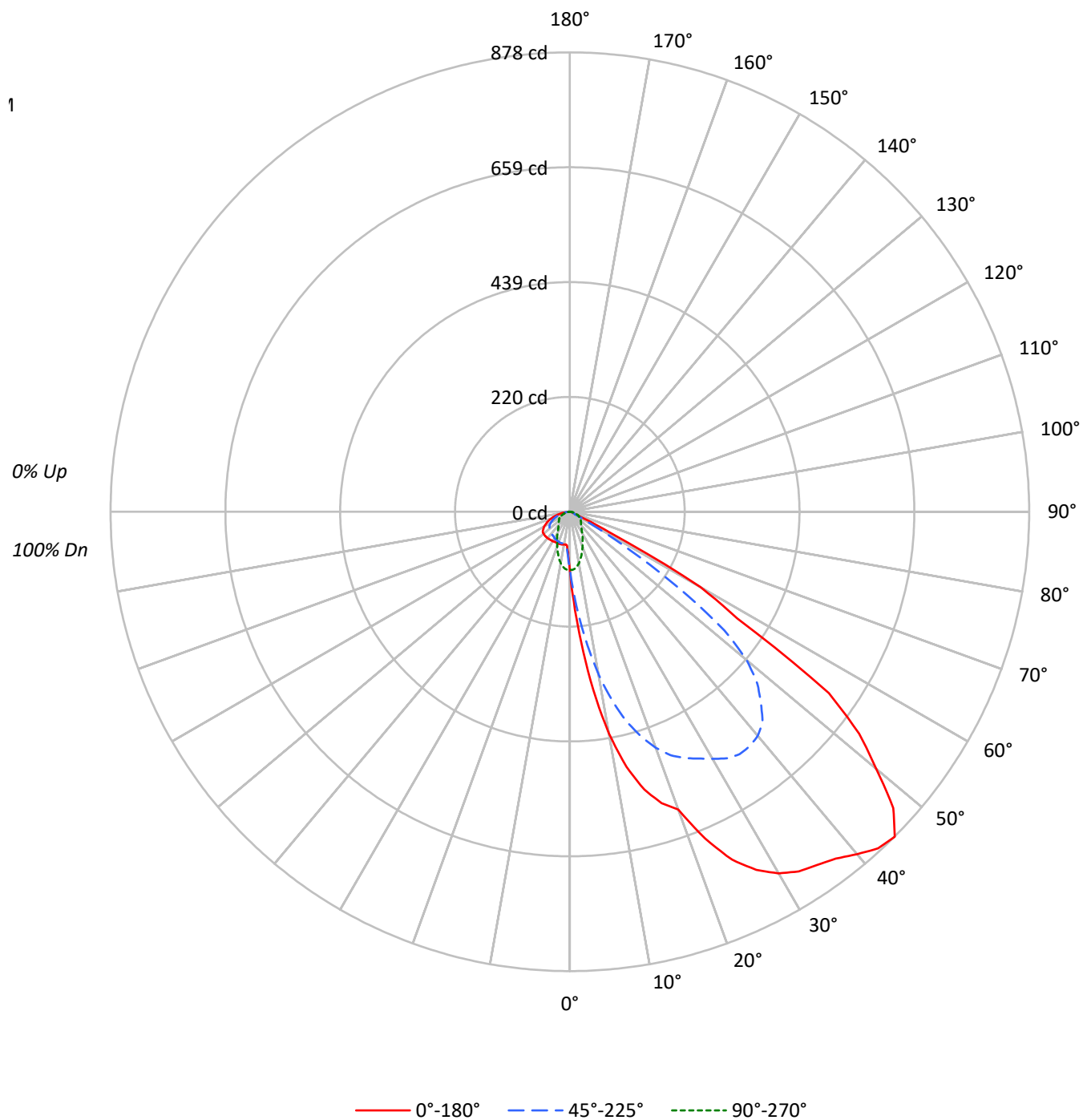
Lumens per Lamp: N/A
Luminaire Lumens: 759.0 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19048	19048	19048	19048	19048
5°	43341	34697	18844	11911	11134
10°	75093	55087	17488	10860	11122
15°	98028	73584	15262	11072	11482
20°	111028	87991	13049	11235	11931
25°	139442	98719	10946	11364	12238
30°	158715	108422	9327	11594	12946
35°	173221	118936	8115	11774	13687
40°	192042	125652	7487	12253	14816
45°	213943	125774	7380	12909	16051
50°	204914	118291	7315	13584	17442
55°	181448	76627	7507	14322	18886
60°	99372	16430	7578	14604	19564
65°	7091	3994	7417	14507	19764
70°	3424	3827	6848	13747	19084
75°	2994	4059	6521	13109	17634
80°	2975	3769	6050	12001	16563
85°	2964	4545	5928	10473	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 213943 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	1.9
10°-20°	61.7	8.1
20°-30°	118.3	15.6
30°-40°	167.4	22.0
40°-50°	189.3	24.9
50°-60°	149.9	19.8
60°-70°	40.4	5.3
70°-80°	13.4	1.8
80°-90°	4.1	0.5
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°	194.5	25.6
0°-40°	361.8	47.7
0°-60°	701.1	92.4
0°-90°	759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	111	111	111	111	111	
5°	251	201	109	69	64	30
15°	550	413	86	62	64	155
25°	734	520	58	60	64	336
35°	824	566	39	56	65	519
45°	878	516	30	53	66	657
55°	604	255	25	48	63	490
65°	17	10	18	36	48	63
75°	4	6	10	20	26	5
85°	2	2	3	5	8	2
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°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	171.9	171.9	171.1	168.1	166.6	162.8	159.8	151.5	131.0	111.3	95.4
5°	250.7	254.4	249.1	248.4	243.8	237.0	232.5	200.7	151.5	109.0	81.8
7.5°	343.8	345.3	343.8	336.2	329.4	318.0	307.4	257.5	171.9	105.3	71.9
10°	429.4	427.1	422.5	417.2	407.4	395.3	377.1	315.0	191.6	100.0	65.9
12.5°	499.0	498.3	493.0	487.7	475.6	459.7	441.5	367.3	208.2	93.1	62.9
15°	549.8	549.8	544.5	538.4	527.0	514.2	493.7	412.7	221.9	85.6	59.8
17.5°	583.8	582.3	578.5	574.0	564.9	552.0	536.1	449.1	231.0	78.0	59.1
20°	605.8	605.0	602.0	595.2	587.6	577.8	563.4	480.1	234.7	71.2	58.3
22.5°	676.2	670.2	658.8	644.4	626.3	602.8	583.1	503.6	233.2	63.6	56.8
25°	733.8	731.5	719.4	702.0	677.7	647.5	614.9	519.5	225.7	57.6	55.3
27.5°	771.6	767.9	756.5	737.6	711.8	682.3	652.0	531.6	215.1	52.3	53.0
30°	798.1	795.9	784.5	763.3	736.8	704.2	673.2	545.2	200.7	46.9	50.7
32.5°	814.8	812.5	801.2	782.2	756.5	722.4	686.8	558.9	183.3	42.4	48.5
35°	823.9	821.6	808.7	792.1	767.9	734.5	696.7	565.7	162.1	38.6	46.2
37.5°	835.3	830.7	813.3	792.8	768.6	737.6	699.7	564.9	140.8	35.6	44.7
40°	854.2	842.1	817.1	789.8	764.8	733.8	697.4	558.9	117.4	33.3	43.2
42.5°	872.4	854.9	817.8	785.3	757.3	727.0	689.1	545.2	91.6	31.8	42.4
45°	878.4	852.7	807.2	774.7	748.2	717.1	677.7	516.4	62.1	30.3	40.9
47.5°	838.3	819.4	781.5	757.3	732.3	702.0	661.1	486.2	35.6	28.8	39.4
50°	764.8	752.7	731.5	716.4	702.7	681.5	641.4	441.5	21.2	27.3	37.9
52.5°	696.7	692.9	677.7	665.6	658.1	648.2	611.9	372.6	17.4	26.5	36.3
55°	604.3	592.2	588.4	583.8	599.7	599.0	549.8	255.2	16.7	25.0	34.8
57.5°	379.4	384.7	404.4	440.7	483.9	508.9	507.4	136.3	15.9	23.5	32.6
60°	288.5	287.8	293.8	309.0	340.8	376.4	409.7	47.7	15.1	22.0	31.0
62.5°	86.3	88.6	106.8	156.8	187.8	231.7	211.3	11.4	14.4	19.7	28.0
65°	17.4	18.2	18.2	20.4	25.0	37.9	46.2	9.8	13.6	18.2	25.7
67.5°	7.6	7.6	7.6	8.3	8.3	9.8	8.3	9.1	12.1	15.9	22.7
70°	6.8	6.8	6.8	6.8	6.8	6.8	7.6	7.6	10.6	13.6	19.7
72.5°	5.3	5.3	5.3	6.1	6.1	6.1	6.1	6.8	9.1	11.4	16.7
75°	4.5	4.5	4.5	4.5	5.3	5.3	5.3	6.1	7.6	9.8	13.6
77.5°	3.8	3.8	3.8	3.8	3.8	4.5	4.5	4.5	6.1	7.6	11.4
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.8	4.5	6.1	8.3
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.8	4.5	6.1
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.0	3.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	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):

	135°	157.5°	180°
0°	110.6	110.6	110.6
2.5°	84.1	79.5	77.2
5°	68.9	65.1	64.4
7.5°	63.6	62.9	62.9
10°	62.1	62.9	63.6
12.5°	62.1	63.6	64.4
15°	62.1	63.6	64.4
17.5°	62.1	63.6	64.4
20°	61.3	63.6	65.1
22.5°	60.6	63.6	64.4
25°	59.8	63.6	64.4
27.5°	59.1	62.9	64.4
30°	58.3	62.9	65.1
32.5°	56.8	62.9	65.1
35°	56.0	62.9	65.1
37.5°	55.3	62.9	65.9
40°	54.5	62.9	65.9
42.5°	53.8	62.9	65.9
45°	53.0	62.1	65.9
47.5°	51.5	62.1	65.9
50°	50.7	61.3	65.1
52.5°	49.2	60.6	65.1
55°	47.7	59.1	62.9
57.5°	45.4	56.8	59.8
60°	42.4	53.8	56.8
62.5°	38.6	50.0	52.3
65°	35.6	45.4	48.5
67.5°	31.0	40.1	43.2
70°	27.3	34.8	37.9
72.5°	23.5	29.5	32.6
75°	19.7	24.2	26.5
77.5°	15.1	19.7	21.2
80°	12.1	15.1	16.7
82.5°	8.3	10.6	11.4
85°	5.3	6.8	7.6
87.5°	2.3	3.0	3.0
90°	0.0	0.0	0.0

(END OF REPORT)