

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: P1320188

Luminaire Tested: LDSQA3D13R709840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320188
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: LDSQA3D13R709840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

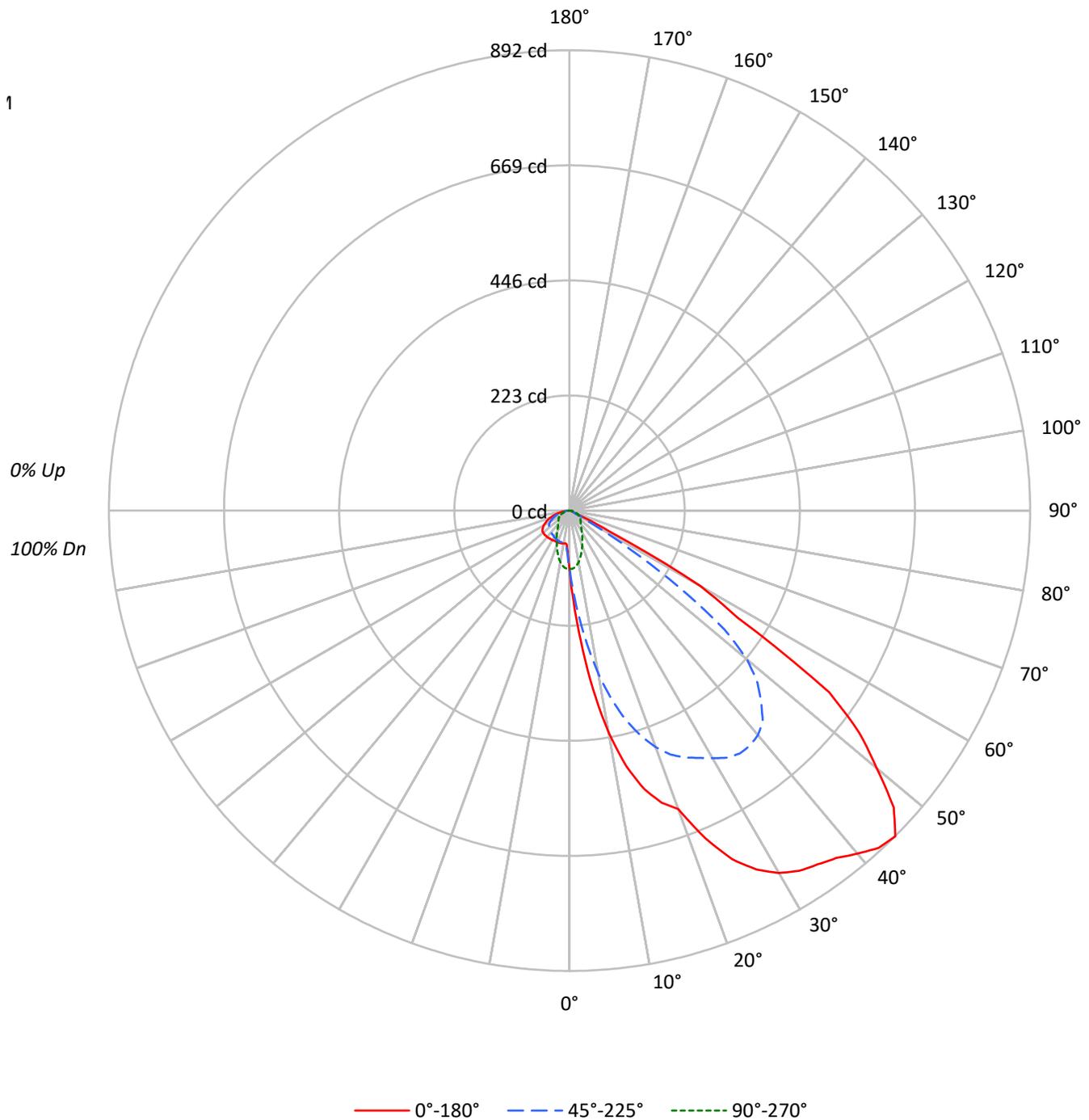
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 771.0 lumens
Efficiency: N/A
Efficacy: 53.2 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 (A_{in}): 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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	66	66	66	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	57	57	57	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	49	49	49	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	43	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	33	33	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	29	29	29	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19341	19341	19341	19341	19341
5°	44015	35233	19155	12102	11306
10°	76282	55961	17750	11035	11297
15°	99579	74743	15494	11251	11661
20°	112788	89383	13251	11418	12133
25°	141646	100277	11117	11554	12428
30°	161240	110132	9486	11773	13165
35°	175954	120807	8242	11963	13918
40°	195077	127631	7599	12455	15041
45°	217328	127771	7502	13104	16294
50°	208155	120167	7422	13798	17737
55°	184300	77828	7627	14563	19157
60°	100957	16706	7681	14846	19874
65°	7213	4075	7539	14752	20050
70°	3474	3877	6949	13948	19386
75°	3061	4126	6654	13308	17900
80°	3075	3769	6149	12199	16761
85°	2964	4545	6126	10671	15215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 217328 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	1.9
10°-20°	62.7	8.1
20°-30°	120.2	15.6
30°-40°	170.0	22.0
40°-50°	192.3	24.9
50°-60°	152.3	19.8
60°-70°	41.1	5.3
70°-80°	13.6	1.8
80°-90°	4.2	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°	197.5	25.6
0°-40°	367.5	47.7
0°-60°	712.1	92.4
0°-90°	771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	771.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	112	112	112	112	112	
5°	255	204	111	70	65	30
15°	558	419	87	63	65	157
25°	745	528	58	61	65	342
35°	837	575	39	57	66	527
45°	892	525	31	54	67	668
55°	614	259	25	48	64	498
65°	18	10	18	36	49	64
75°	5	6	10	20	27	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°	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3
2.5°	174.6	174.6	173.8	170.8	169.2	165.4	162.3	153.8	133.1	113.1	96.9
5°	254.6	258.5	253.1	252.3	247.7	240.8	236.2	203.8	153.8	110.8	83.1
7.5°	349.2	350.8	349.2	341.5	334.6	323.1	312.3	261.5	174.6	106.9	73.1
10°	436.2	433.8	429.2	423.8	413.8	401.5	383.1	320.0	194.6	101.5	66.9
12.5°	506.9	506.2	500.8	495.4	483.1	466.9	448.5	373.1	211.5	94.6	63.8
15°	558.5	558.5	553.1	546.9	535.4	522.3	501.5	419.2	225.4	86.9	60.8
17.5°	593.1	591.5	587.7	583.1	573.8	560.8	544.6	456.2	234.6	79.2	60.0
20°	615.4	614.6	611.5	604.6	596.9	586.9	572.3	487.7	238.5	72.3	59.2
22.5°	686.9	680.8	669.2	654.6	636.2	612.3	592.3	511.5	236.9	64.6	57.7
25°	745.4	743.1	730.8	713.1	688.5	657.7	624.6	527.7	229.2	58.5	56.2
27.5°	783.8	780.0	768.5	749.2	723.1	693.1	662.3	540.0	218.5	53.1	53.8
30°	810.8	808.5	796.9	775.4	748.5	715.4	683.8	553.8	203.8	47.7	51.5
32.5°	827.7	825.4	813.8	794.6	768.5	733.8	697.7	567.7	186.2	43.1	49.2
35°	836.9	834.6	821.5	804.6	780.0	746.2	707.7	574.6	164.6	39.2	46.9
37.5°	848.5	843.8	826.2	805.4	780.8	749.2	710.8	573.8	143.1	36.2	45.4
40°	867.7	855.4	830.0	802.3	776.9	745.4	708.5	567.7	119.2	33.8	43.8
42.5°	886.2	868.5	830.8	797.7	769.2	738.5	700.0	553.8	93.1	32.3	43.1
45°	892.3	866.2	820.0	786.9	760.0	728.5	688.5	524.6	63.1	30.8	41.5
47.5°	851.5	832.3	793.8	769.2	743.8	713.1	671.5	493.8	36.2	29.2	40.0
50°	776.9	764.6	743.1	727.7	713.8	692.3	651.5	448.5	21.5	27.7	38.5
52.5°	707.7	703.8	688.5	676.2	668.5	658.5	621.5	378.5	17.7	26.9	36.9
55°	613.8	601.5	597.7	593.1	609.2	608.5	558.5	259.2	16.9	25.4	35.4
57.5°	385.4	390.8	410.8	447.7	491.5	516.9	515.4	138.5	16.2	23.8	33.1
60°	293.1	292.3	298.5	313.8	346.2	382.3	416.2	48.5	15.4	22.3	31.5
62.5°	87.7	90.0	108.5	159.2	190.8	235.4	214.6	11.5	14.6	20.0	28.5
65°	17.7	18.5	18.5	20.8	25.4	38.5	46.9	10.0	13.8	18.5	26.2
67.5°	7.7	7.7	7.7	8.5	8.5	10.0	8.5	9.2	12.3	16.2	23.1
70°	6.9	6.9	6.9	6.9	6.9	6.9	7.7	7.7	10.8	13.8	20.0
72.5°	5.4	5.4	5.4	6.2	6.2	6.2	6.2	6.9	9.2	11.5	16.9
75°	4.6	4.6	4.6	4.6	5.4	5.4	5.4	6.2	7.7	10.0	13.8
77.5°	3.8	3.8	3.8	3.8	3.8	4.6	4.6	4.6	6.2	7.7	11.5
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.8	4.6	6.2	8.5
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.8	4.6	6.2
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.1	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°	112.3	112.3	112.3
2.5°	85.4	80.8	78.5
5°	70.0	66.2	65.4
7.5°	64.6	63.8	63.8
10°	63.1	63.8	64.6
12.5°	63.1	64.6	65.4
15°	63.1	64.6	65.4
17.5°	63.1	64.6	65.4
20°	62.3	64.6	66.2
22.5°	61.5	64.6	65.4
25°	60.8	64.6	65.4
27.5°	60.0	63.8	65.4
30°	59.2	63.8	66.2
32.5°	57.7	63.8	66.2
35°	56.9	63.8	66.2
37.5°	56.2	63.8	66.9
40°	55.4	63.8	66.9
42.5°	54.6	63.8	66.9
45°	53.8	63.1	66.9
47.5°	52.3	63.1	66.9
50°	51.5	62.3	66.2
52.5°	50.0	61.5	66.2
55°	48.5	60.0	63.8
57.5°	46.2	57.7	60.8
60°	43.1	54.6	57.7
62.5°	39.2	50.8	53.1
65°	36.2	46.2	49.2
67.5°	31.5	40.8	43.8
70°	27.7	35.4	38.5
72.5°	23.8	30.0	33.1
75°	20.0	24.6	26.9
77.5°	15.4	20.0	21.5
80°	12.3	15.4	16.9
82.5°	8.5	10.8	11.5
85°	5.4	6.9	7.7
87.5°	2.3	3.1	3.1
90°	0.0	0.0	0.0

(END OF REPORT)