

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: P1309587

Luminaire Tested: LDSQA3D20R459030D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R459030D010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

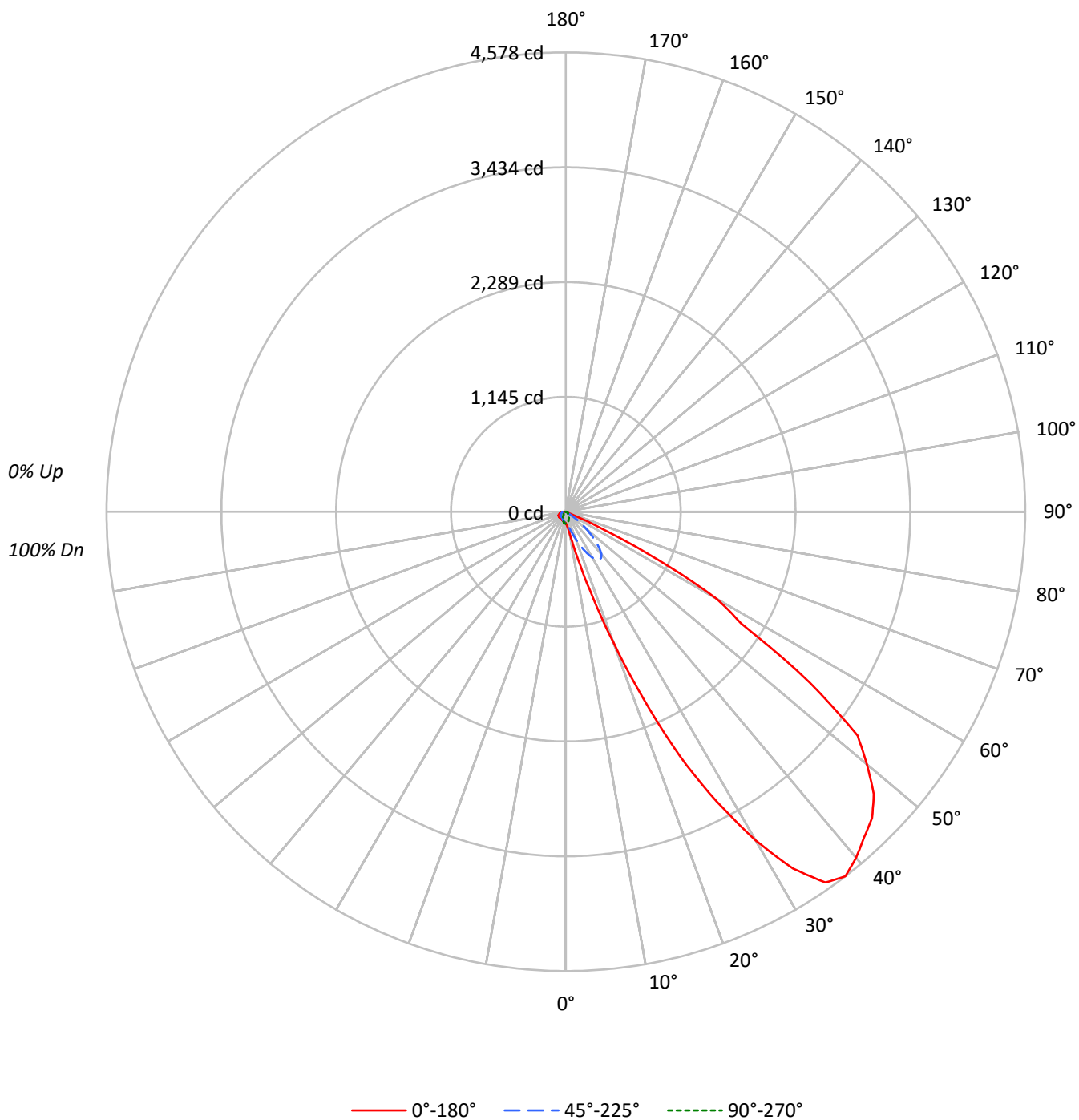
Lumens per Lamp: N/A
Luminaire Lumens: 2045.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

TEST NUMBER: P1309587

CATALOG NUMBER: LDSQA3D20R459030D010 3LSQCA45R 1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1309587

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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	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36		
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31		
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26		
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22		
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20374	20374	20374	20374	20374
5°	24238	22492	20158	18688	18688
10°	38718	26302	18904	17733	17733
15°	96406	35250	17170	16564	17170
20°	253947	52655	14864	15798	16715
25°	509899	78025	12846	14765	16380
30°	751692	104504	10421	14458	16804
35°	948184	122573	8872	14213	17408
40°	1011648	123854	7981	14816	18615
45°	1051106	103294	7404	16051	20167
50°	1049432	71993	7234	17201	22640
55°	891955	31978	7597	19277	24862
60°	599473	6407	7578	21528	28520
65°	159053	2771	7580	23432	32357
70°	4230	3424	7654	25530	36608
75°	3394	3394	7852	27016	41589
80°	3372	5058	8331	28464	46912
85°	3359	6719	13437	30036	46832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 1078166 cd/sqm

TEST NUMBER: P1309587

CATALOG NUMBER: LDSQA3D20R459030D010 3LSQCA45R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	0.6
10°-20°	57.7	2.8
20°-30°	237.9	11.6
30°-40°	501.4	24.5
40°-50°	618.6	30.2
50°-60°	463.6	22.7
60°-70°	119.3	5.8
70°-80°	24.7	1.2
80°-90°	10.0	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°	307.3	15.0
0°-40°	808.7	39.5
0°-60°	1890.9	92.5
0°-90°	2045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	118	118	118	118	118	
5°	140	130	117	108	108	16
15°	541	198	96	93	96	198
25°	2683	411	68	78	86	1250
35°	4510	583	42	68	83	2748
45°	4316	424	30	66	83	3302
55°	2971	106	25	64	83	2565
65°	390	7	19	58	79	563
75°	5	5	12	41	62	6
85°	2	3	7	15	24	2
90°	0	0	0	0	0	

TEST NUMBER: P1309587

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	118.3	118.3	118.3	118.3	118.3	118.3	118.3	118.3	118.3	118.3	118.3
2.5°	125.0	125.0	125.0	125.0	125.0	125.0	125.0	123.4	121.7	118.3	114.9
5°	140.2	138.6	138.6	138.6	136.9	135.2	135.2	130.1	123.4	116.6	111.5
7.5°	165.6	165.6	163.9	160.5	158.8	155.5	152.1	138.6	123.4	113.2	106.5
10°	221.4	218.0	212.9	209.5	201.1	189.3	180.8	150.4	121.7	108.1	103.1
12.5°	331.2	337.9	321.0	304.2	280.5	258.5	231.5	170.7	121.7	103.1	98.0
15°	540.7	552.5	520.4	486.6	429.2	375.1	324.4	197.7	118.3	96.3	91.2
17.5°	883.7	898.9	844.9	765.4	675.9	567.8	474.8	234.9	114.9	89.6	86.2
20°	1385.6	1383.9	1279.1	1179.4	1007.1	848.2	674.2	287.3	109.8	81.1	81.1
22.5°	2002.3	2009.1	1880.7	1701.6	1456.6	1201.4	924.3	348.1	103.1	74.3	76.0
25°	2683.3	2625.8	2473.8	2255.8	1943.2	1590.0	1225.1	410.6	96.3	67.6	71.0
27.5°	3251.0	3195.3	3021.2	2762.7	2426.5	2007.4	1530.9	473.1	87.9	60.8	65.9
30°	3779.9	3709.0	3499.4	3207.1	2806.6	2353.8	1818.2	525.5	77.7	52.4	60.8
32.5°	4215.9	4151.7	3913.4	3573.8	3137.8	2651.2	2061.5	566.1	67.6	47.3	57.5
35°	4509.9	4444.0	4224.3	3850.9	3376.1	2867.5	2259.2	583.0	59.1	42.2	55.8
37.5°	4577.5	4542.0	4384.9	4035.1	3540.0	3006.0	2385.9	577.9	49.0	38.9	52.4
40°	4499.8	4508.2	4433.9	4143.2	3627.9	3065.2	2438.3	550.9	40.6	35.5	50.7
42.5°	4400.1	4422.0	4417.0	4187.2	3665.0	3068.6	2416.3	496.8	32.1	32.1	49.0
45°	4315.6	4337.5	4368.0	4168.6	3639.7	3024.6	2347.0	424.1	23.7	30.4	49.0
47.5°	4161.8	4185.5	4229.4	4019.9	3511.3	2911.4	2222.0	344.7	16.9	28.7	47.3
50°	3916.8	3928.6	3916.8	3681.9	3264.6	2728.9	2019.2	268.7	11.8	27.0	47.3
52.5°	3665.0	3641.4	3543.4	3246.0	2872.5	2440.0	1764.1	190.9	8.4	25.3	45.6
55°	2970.6	2933.4	2860.7	2678.2	2465.3	2085.1	1426.1	106.5	8.4	25.3	43.9
57.5°	2069.9	2090.2	2115.5	2078.4	1980.4	1642.4	1083.1	47.3	8.4	23.7	43.9
60°	1740.4	1723.5	1725.2	1701.6	1539.3	1198.0	745.2	18.6	8.4	22.0	42.2
62.5°	1039.2	1051.0	1073.0	1078.1	917.5	669.1	390.3	8.4	8.4	20.3	40.6
65°	390.3	408.9	358.2	310.9	246.7	180.8	91.2	6.8	10.1	18.6	37.2
67.5°	11.8	13.5	16.9	15.2	15.2	13.5	10.1	6.8	10.1	16.9	35.5
70°	8.4	8.4	8.4	8.4	8.4	6.8	6.8	6.8	8.4	15.2	32.1
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.4	13.5	28.7
75°	5.1	6.8	5.1	5.1	5.1	5.1	5.1	5.1	8.4	11.8	23.7
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	10.1	20.3
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1	6.8	8.4	16.9
82.5°	3.4	3.4	3.4	1.7	3.4	3.4	3.4	3.4	6.8	6.8	13.5
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.1	6.8	8.4
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	3.4	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1309587

CATALOG NUMBER: LDSQA3D20R459030D010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	118.3	118.3	118.3
2.5°	111.5	111.5	111.5
5°	108.1	108.1	108.1
7.5°	104.8	104.8	104.8
10°	101.4	101.4	101.4
12.5°	98.0	98.0	99.7
15°	92.9	96.3	96.3
17.5°	89.6	92.9	94.6
20°	86.2	89.6	91.2
22.5°	81.1	86.2	89.6
25°	77.7	84.5	86.2
27.5°	74.3	82.8	86.2
30°	72.7	81.1	84.5
32.5°	69.3	79.4	82.8
35°	67.6	79.4	82.8
37.5°	67.6	77.7	82.8
40°	65.9	77.7	82.8
42.5°	65.9	77.7	82.8
45°	65.9	77.7	82.8
47.5°	64.2	77.7	84.5
50°	64.2	79.4	84.5
52.5°	64.2	79.4	84.5
55°	64.2	79.4	82.8
57.5°	62.5	77.7	82.8
60°	62.5	77.7	82.8
62.5°	59.1	76.0	81.1
65°	57.5	74.3	79.4
67.5°	54.1	72.7	76.0
70°	50.7	67.6	72.7
72.5°	45.6	64.2	69.3
75°	40.6	59.1	62.5
77.5°	35.5	52.4	55.8
80°	28.7	43.9	47.3
82.5°	22.0	33.8	35.5
85°	15.2	22.0	23.7
87.5°	6.8	10.1	11.8
90°	0.0	0.0	0.0

(END OF REPORT)