

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: P1311454

Luminaire Tested: LDSQA3D13R209040DE010 3LSQPHRL1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R209040DE010 3LSQPHRL1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , 3LSQPHRL1MW TRIM
Light Source: -
Ballast/Driver: -

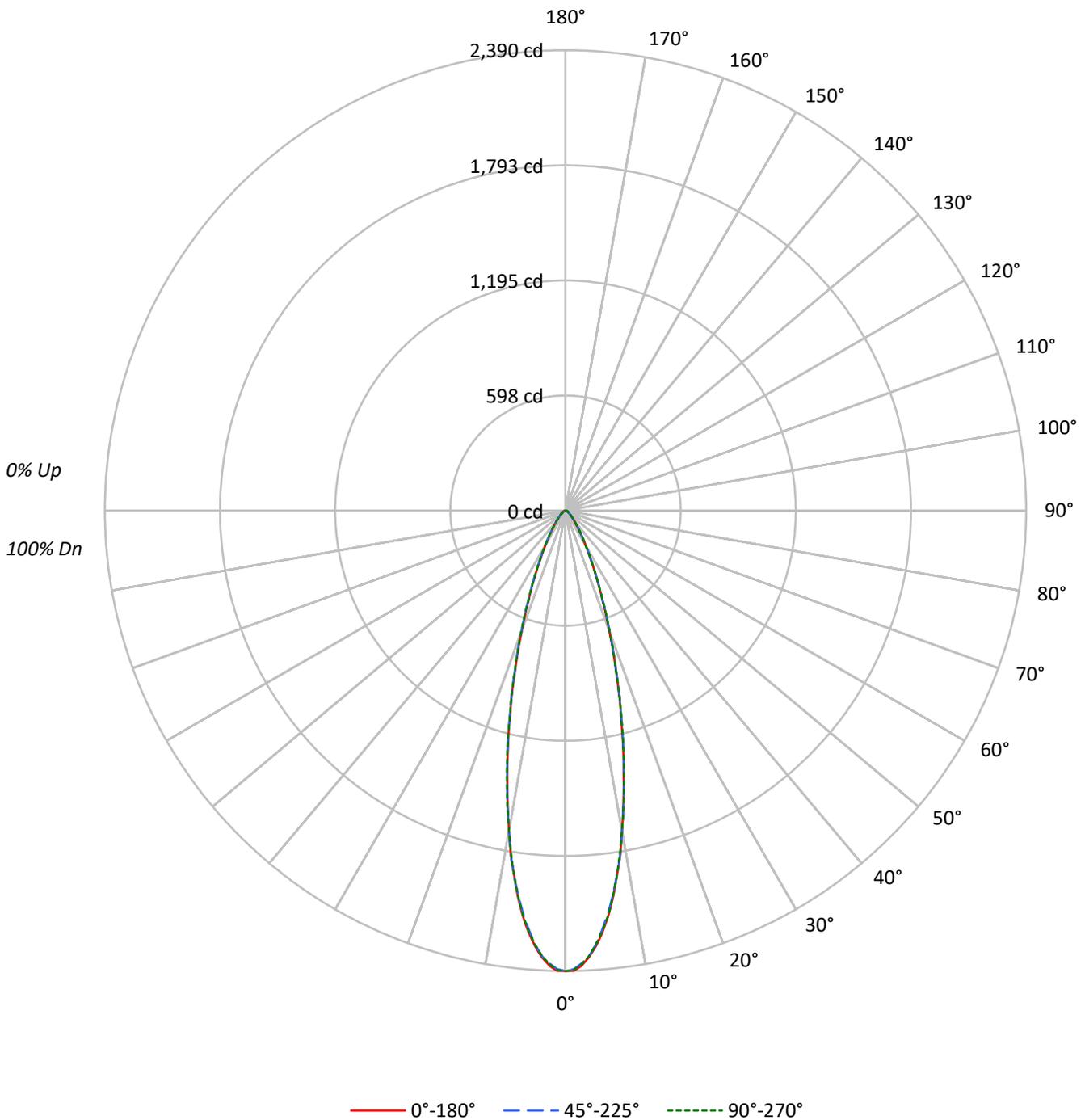
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 840.0 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1311454
CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQPHRL1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1311454
 CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQPHRL1MW

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	96	96	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	86	83	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	82	79	77	75
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	73	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	71	67	65	71	67	64	71	67	64	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	68	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	411664	411664	411664
5°	379784	377606	378868
10°	294707	295074	295074
15°	199195	200122	200122
20°	120980	122501	123088
25°	70956	71963	71754
30°	41404	42239	42438
35°	25292	25944	25944
40°	16457	16704	16929
45°	11472	11715	11983
50°	8413	8681	8681
55°	6606	6906	6906
60°	5752	5752	6131
65°	5135	5135	5542
70°	4733	4733	4733
75°	4192	4192	4192
80°	3075	3075	4166
85°	1976	1976	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11983 cd/sqm



TEST NUMBER: P1311454

CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQPHRL1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	22.9
10°-20°	308.7	36.7
20°-30°	178.7	21.3
30°-40°	80.1	9.5
40°-50°	38.0	4.5
50°-60°	20.8	2.5
60°-70°	12.6	1.5
70°-80°	6.8	0.8
80°-90°	1.5	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°	680.2	81.0
0°-40°	760.3	90.5
0°-60°	819.1	97.5
0°-90°	840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2390	2390	2390	2390	2390	
5°	2197	2189	2184	2188	2192	193
15°	1117	1117	1122	1117	1122	308
25°	373	373	379	376	378	177
35°	120	121	123	124	123	78
45°	47	47	48	48	49	37
55°	22	22	23	23	23	20
65°	13	13	13	13	14	13
75°	6	6	6	6	6	7
85°	1	1	1	1	2	1
90°	0	0	0	0	0	



TEST NUMBER: P1311454
 CATALOG NUMBER: LDSQA3D13R209040DE010 3LSQPHRL1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2390.3	2390.3	2390.3	2390.3	2390.3
1°	2389.2	2383.0	2380.9	2378.8	2385.0
2°	2365.2	2357.9	2353.7	2355.8	2356.8
3°	2322.3	2318.1	2318.1	2315.0	2317.1
4°	2266.8	2258.5	2258.5	2259.5	2259.5
5°	2196.8	2189.4	2184.2	2188.4	2191.5
6°	2118.3	2108.9	2104.7	2105.7	2113.1
7°	2022.1	2009.5	2011.6	2016.8	2016.8
8°	1913.3	1912.2	1914.3	1912.2	1914.3
9°	1812.8	1798.2	1810.8	1800.3	1805.5
10°	1685.2	1684.2	1687.3	1690.5	1687.3
12.5°	1394.4	1399.6	1401.7	1397.6	1407.0
15°	1117.2	1117.2	1122.4	1117.2	1122.4
17.5°	869.3	868.2	872.4	868.2	874.5
20°	660.1	667.4	668.4	668.4	671.6
22.5°	497.9	497.9	502.1	503.2	501.1
25°	373.4	373.4	378.7	375.5	377.6
27.5°	276.2	278.3	282.4	284.5	284.5
30°	208.2	209.2	212.4	213.4	213.4
32.5°	156.9	159.0	161.1	162.1	163.2
35°	120.3	121.3	123.4	124.5	123.4
37.5°	92.1	93.1	95.2	96.2	96.2
40°	73.2	73.2	74.3	75.3	75.3
42.5°	57.5	58.6	58.6	59.6	59.6
45°	47.1	47.1	48.1	48.1	49.2
47.5°	37.7	37.7	38.7	39.8	39.8
50°	31.4	31.4	32.4	32.4	32.4
52.5°	26.2	26.2	27.2	27.2	27.2
55°	22.0	22.0	23.0	23.0	23.0
57.5°	18.8	18.8	19.9	19.9	19.9
60°	16.7	16.7	16.7	16.7	17.8
62.5°	14.6	14.6	14.6	14.6	14.6
65°	12.6	12.6	12.6	12.6	13.6
67.5°	10.5	10.5	10.5	10.5	11.5
70°	9.4	9.4	9.4	9.4	9.4
72.5°	7.3	7.3	7.3	8.4	8.4
75°	6.3	6.3	6.3	6.3	6.3
77.5°	5.2	5.2	5.2	5.2	5.2
80°	3.1	3.1	3.1	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	2.1
87.5°	0.0	0.0	0.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)