

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: P1319920

Luminaire Tested: LDSQA3D09R159840DE010 3LSQPHRL1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R159840DE010 3LSQPHRL1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQPHRL1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

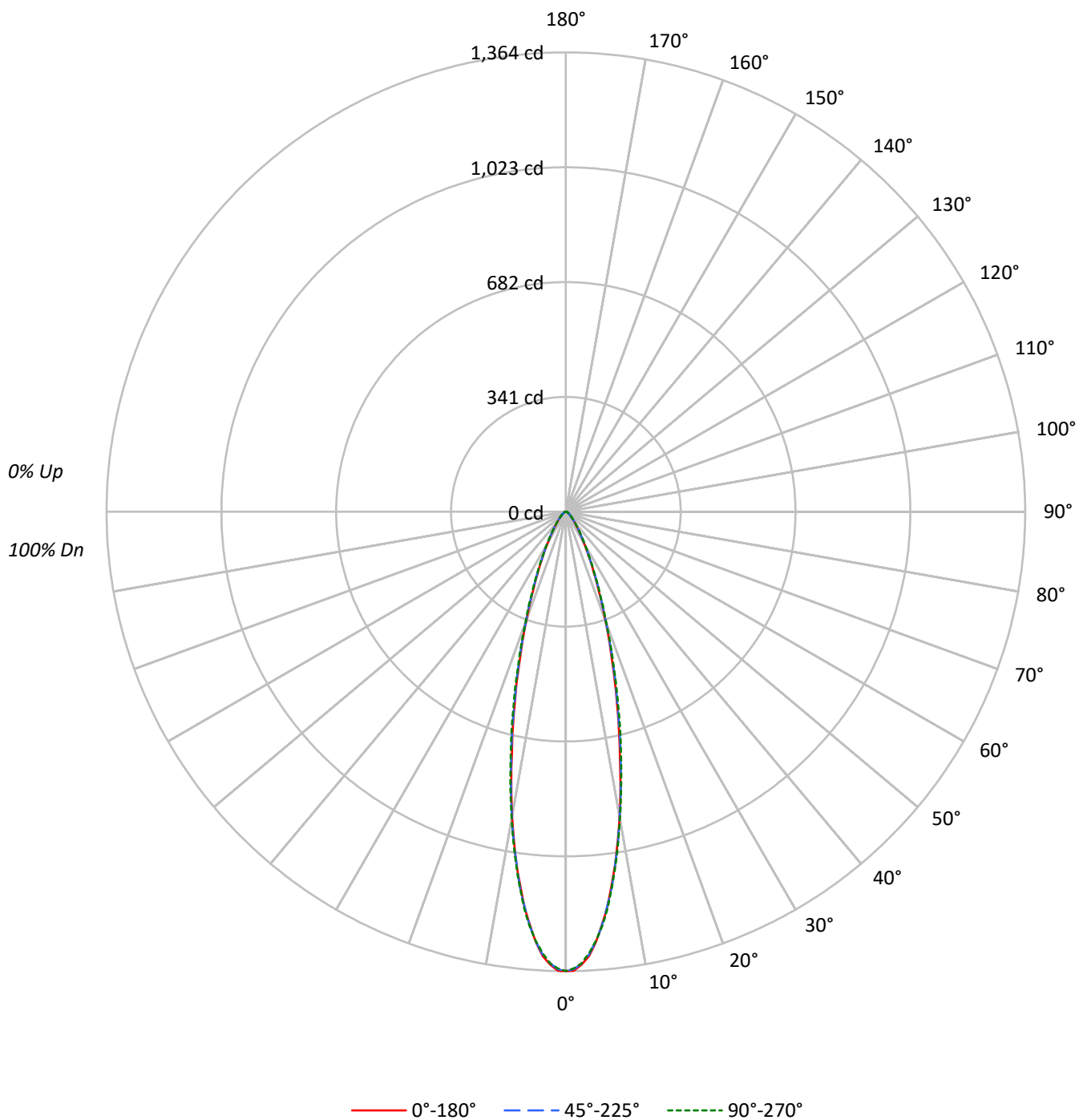
Lumens per Lamp: N/A
Luminaire Lumens: 451.0 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98
2	109	104	101	97	107	103	99	96	99	97	94		97	94	92		94
3	104	98	94	90	102	97	93	89	94	91	88		92	89	87		90
4	100	93	88	84	98	92	87	84	90	86	83		88	85	82		86
5	96	88	83	79	94	87	83	79	86	82	78		84	80	78		83
6	92	84	79	75	91	83	78	75	82	78	74		81	77	74		79
7	88	80	75	71	87	80	75	71	79	74	71		77	74	71		76
8	85	77	72	68	84	76	72	68	75	71	68		74	70	68		74
9	82	74	69	65	81	73	69	65	73	68	65		72	68	65		71
10	79	71	66	63	78	71	66	63	70	66	63		69	65	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	234877	234877	234877
5°	212747	213144	213456
10°	160627	161029	161833
15°	104180	105321	107389
20°	62735	63468	64311
25°	36637	37416	37967
30°	21537	22233	22571
35°	13266	13750	14002
40°	8723	8993	9105
45°	6065	6211	6357
50°	4501	4662	4823
55°	3663	3813	3813
60°	3203	3203	3203
65°	2812	2812	2812
70°	2316	2618	2618
75°	2329	2329	2329
80°	1686	2281	2281
85°	1186	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 6357 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	23.8
10°-20°	164.3	36.4
20°-30°	93.4	20.7
30°-40°	42.6	9.4
40°-50°	20.4	4.5
50°-60°	11.4	2.5
60°-70°	7.0	1.5
70°-80°	3.7	0.8
80°-90°	0.8	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°	365.0	80.9
0°-40°	407.6	90.4
0°-60°	439.5	97.4
0°-90°	451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1231	1230	1233	1233	1235	107
15°	584	587	591	599	602	162
25°	193	193	197	199	200	91
35°	63	64	65	67	67	41
45°	25	25	26	26	26	20
55°	12	12	13	13	13	11
65°	7	7	7	7	7	7
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.8	1363.8	1363.8	1363.8	1363.8
1°	1362.6	1359.2	1358.0	1357.4	1356.3
2°	1345.3	1342.4	1341.8	1341.8	1341.2
3°	1320.9	1315.7	1316.3	1314.6	1312.8
4°	1279.8	1277.5	1278.7	1279.8	1277.5
5°	1230.6	1230.0	1232.9	1232.9	1234.7
6°	1179.6	1179.1	1177.3	1182.0	1184.3
7°	1114.8	1118.3	1122.9	1120.6	1122.3
8°	1055.7	1051.7	1053.4	1059.2	1059.8
9°	986.2	983.3	990.9	993.2	993.7
10°	918.5	921.4	920.8	928.9	925.4
12.5°	741.8	746.5	751.7	755.2	758.6
15°	584.3	587.2	590.7	598.8	602.3
17.5°	449.4	452.9	456.3	463.3	464.4
20°	342.3	344.0	346.3	352.7	350.9
22.5°	256.0	258.9	261.2	264.1	265.8
25°	192.8	192.8	196.9	198.6	199.8
27.5°	143.6	144.8	147.7	150.0	149.4
30°	108.3	110.0	111.8	112.9	113.5
32.5°	83.4	83.4	85.1	86.9	87.4
35°	63.1	64.3	65.4	66.6	66.6
37.5°	49.2	49.8	51.0	51.5	51.5
40°	38.8	38.8	40.0	40.5	40.5
42.5°	30.7	31.3	31.9	32.4	32.4
45°	24.9	24.9	25.5	26.1	26.1
47.5°	20.3	20.3	20.8	21.4	21.4
50°	16.8	17.4	17.4	18.0	18.0
52.5°	14.5	14.5	14.5	15.1	15.1
55°	12.2	12.2	12.7	12.7	12.7
57.5°	10.4	10.4	10.4	11.0	11.0
60°	9.3	9.3	9.3	9.3	9.3
62.5°	8.1	8.1	8.1	8.1	8.1
65°	6.9	6.9	6.9	6.9	6.9
67.5°	5.8	5.8	5.8	6.4	6.4
70°	4.6	5.2	5.2	5.2	5.2
72.5°	4.1	4.1	4.1	4.1	4.1
75°	3.5	3.5	3.5	3.5	3.5
77.5°	2.9	2.9	2.9	2.9	2.9
80°	1.7	2.3	2.3	2.3	2.3
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)