

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: P1327581

Luminaire Tested: LDSQA3D13R20W2N902750DE010 3LSQPHRL1MB_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327581
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: LDSQA3D13R20W2N902750DE010 3LSQPHRL1MB_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,
3LSQPHRL1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

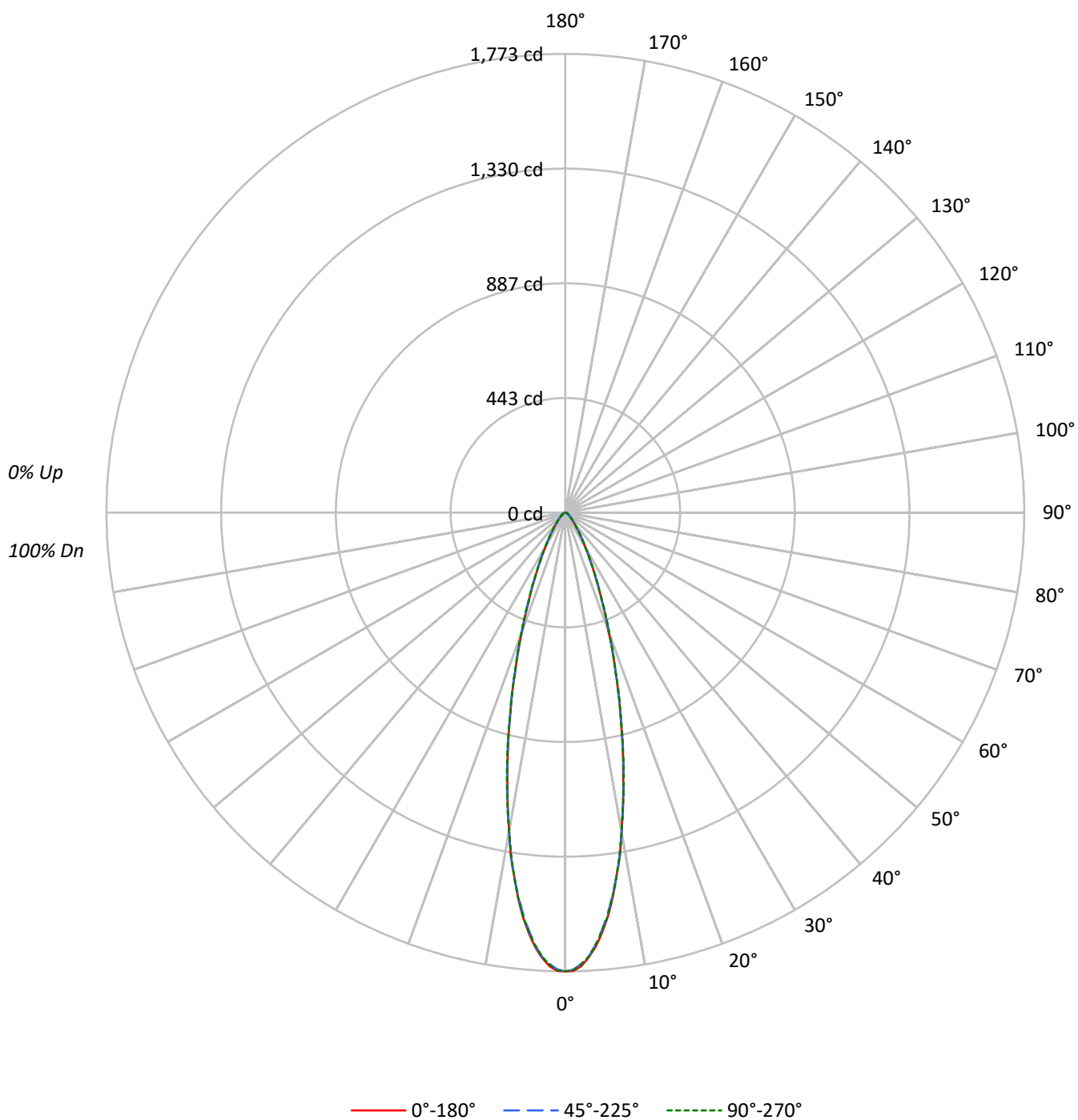
Lumens per Lamp: N/A
Luminaire Lumens: 623.1 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	90	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	85	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	81	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	77	77	75
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	73	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	70	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	67	67	66
9	82	74	69	65	81	73	68	65	72	68	65	71	67	65	71	67	64	64	64	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	305316	305316	305316
5°	281674	280066	281000
10°	218582	218844	218844
15°	147738	148433	148433
20°	89732	90868	91290
25°	52637	53378	53226
30°	30705	31321	31480
35°	18754	19237	19237
40°	12208	12388	12567
45°	8500	8695	8890
50°	6243	6457	6457
55°	4894	5134	5134
60°	4271	4271	4547
65°	3790	3790	4116
70°	3525	3525	3525
75°	3127	3127	3127
80°	2281	2281	3075
85°	1581	1581	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8890 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	22.9
10°-20°	228.9	36.7
20°-30°	132.6	21.3
30°-40°	59.4	9.5
40°-50°	28.2	4.5
50°-60°	15.4	2.5
60°-70°	9.4	1.5
70°-80°	5.0	0.8
80°-90°	1.1	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°	504.5	81.0
0°-40°	563.9	90.5
0°-60°	607.5	97.5
0°-90°	623.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	623.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1773	1773	1773	1773	1773	
5°	1629	1624	1620	1623	1625	143
15°	829	829	832	829	832	228
25°	277	277	281	278	280	131
35°	89	90	92	92	92	58
45°	35	35	36	36	36	28
55°	16	16	17	17	17	15
65°	9	9	9	9	10	9
75°	5	5	5	5	5	5
85°	1	1	1	1	2	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1772.8	1772.8	1772.8	1772.8	1772.8
1°	1772.0	1767.4	1765.8	1764.3	1768.9
2°	1754.2	1748.7	1745.6	1747.2	1748.0
3°	1722.4	1719.3	1719.3	1716.9	1718.5
4°	1681.2	1675.0	1675.0	1675.8	1675.8
5°	1629.3	1623.8	1620.0	1623.1	1625.4
6°	1571.1	1564.1	1561.0	1561.8	1567.2
7°	1499.7	1490.4	1491.9	1495.8	1495.8
8°	1419.0	1418.2	1419.8	1418.2	1419.8
9°	1344.5	1333.7	1343.0	1335.2	1339.1
10°	1249.9	1249.1	1251.4	1253.8	1251.4
12.5°	1034.2	1038.1	1039.6	1036.5	1043.5
15°	828.6	828.6	832.5	828.6	832.5
17.5°	644.7	643.9	647.0	643.9	648.6
20°	489.6	495.0	495.8	495.8	498.1
22.5°	369.3	369.3	372.4	373.2	371.6
25°	277.0	277.0	280.9	278.5	280.1
27.5°	204.8	206.4	209.5	211.0	211.0
30°	154.4	155.2	157.5	158.3	158.3
32.5°	116.4	117.9	119.5	120.3	121.0
35°	89.2	90.0	91.5	92.3	91.5
37.5°	68.3	69.0	70.6	71.4	71.4
40°	54.3	54.3	55.1	55.9	55.9
42.5°	42.7	43.4	43.4	44.2	44.2
45°	34.9	34.9	35.7	35.7	36.5
47.5°	27.9	27.9	28.7	29.5	29.5
50°	23.3	23.3	24.1	24.1	24.1
52.5°	19.4	19.4	20.2	20.2	20.2
55°	16.3	16.3	17.1	17.1	17.1
57.5°	14.0	14.0	14.7	14.7	14.7
60°	12.4	12.4	12.4	12.4	13.2
62.5°	10.9	10.9	10.9	10.9	10.9
65°	9.3	9.3	9.3	9.3	10.1
67.5°	7.8	7.8	7.8	7.8	8.5
70°	7.0	7.0	7.0	7.0	7.0
72.5°	5.4	5.4	5.4	6.2	6.2
75°	4.7	4.7	4.7	4.7	4.7
77.5°	3.9	3.9	3.9	3.9	3.9
80°	2.3	2.3	2.3	3.1	3.1
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)