

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: P1309335

Luminaire Tested: LDSQA3D13R709030DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R709030DE010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

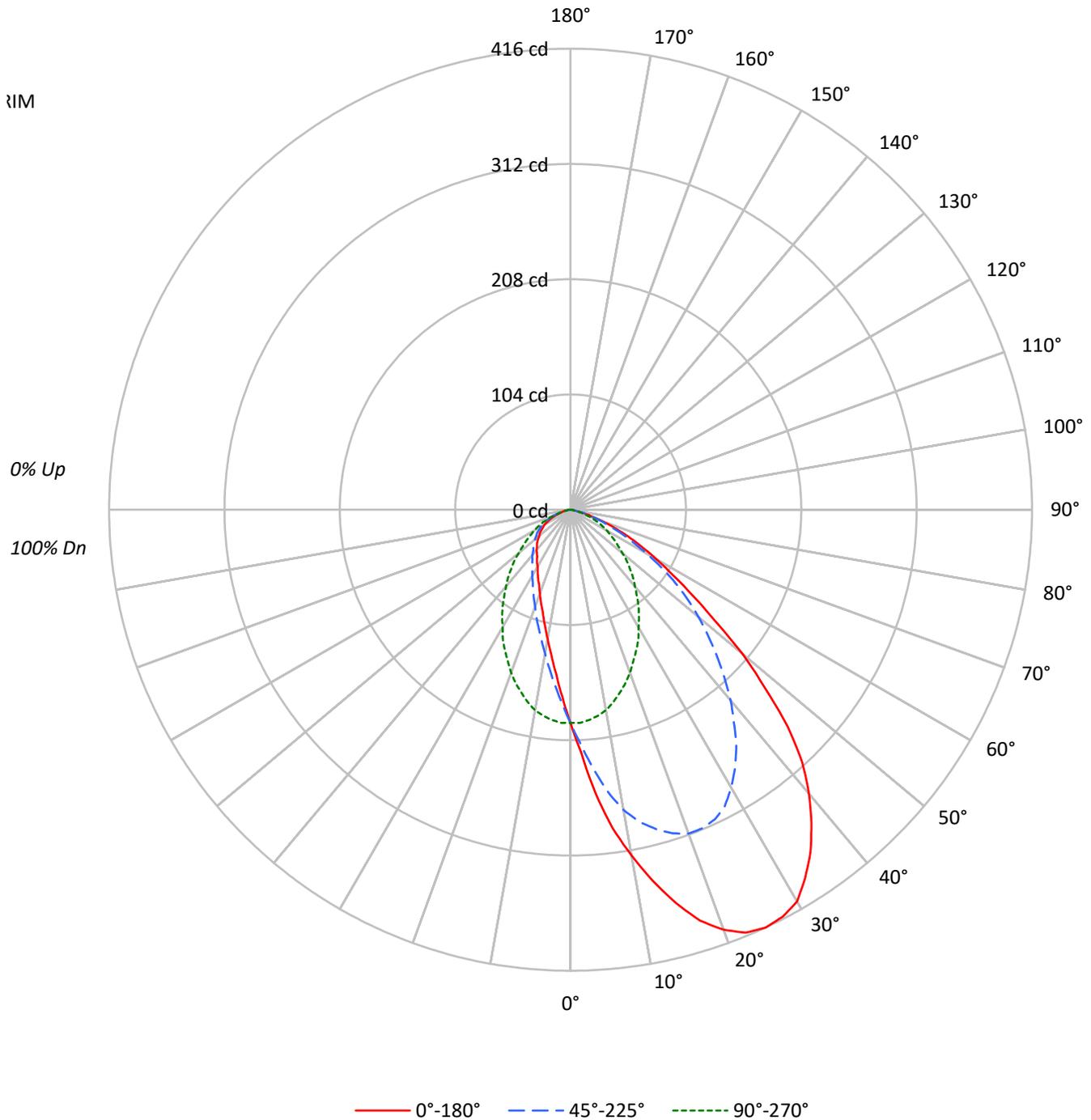
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 470.0 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33
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 (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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76	76	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	66	66	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	58	58	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36	36	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33	33	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33136	33136	33136	33136	33136
5°	44361	40489	32934	27557	25707
10°	55402	48092	32125	23119	20741
15°	65507	53204	30489	19755	17152
20°	73915	56999	28683	17100	14790
25°	79051	58547	26585	15145	13112
30°	81177	57591	24361	13722	11793
35°	79283	54769	22475	12678	11038
40°	75158	50472	20324	12028	10701
45°	67466	45448	18462	11593	10424
50°	54149	40350	16397	11200	9887
55°	39965	34740	14593	11080	9638
60°	30793	27108	13054	10712	9369
65°	23351	20213	11492	9903	8313
70°	15660	14200	8812	8812	6848
75°	8384	8384	5789	5789	5190
80°	1884	3868	2876	3868	4860
85°	0	1976	1976	3754	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 67466 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	4.0
10°-20°	57.7	12.3
20°-30°	88.9	18.9
30°-40°	100.9	21.5
40°-50°	91.3	19.4
50°-60°	63.8	13.6
60°-70°	35.1	7.5
70°-80°	11.7	2.5
80°-90°	1.6	0.3
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°	165.6	35.2
0°-40°	266.5	56.7
0°-60°	421.6	89.7
0°-90°	470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	192	192	192	192	192	
5°	257	234	190	159	149	26
15°	367	298	171	111	96	105
25°	416	308	140	80	69	191
35°	377	260	107	60	52	234
45°	277	187	76	48	43	210
55°	133	116	49	37	32	122
65°	57	50	28	24	20	57
75°	13	13	9	9	8	15
85°	0	1	1	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4
2.5°	219.6	221.6	222.6	220.6	219.6	218.7	216.7	215.8	213.8	211.9	210.9
5°	256.6	256.6	256.6	254.6	251.7	249.8	245.9	243.0	238.1	234.2	230.3
7.5°	289.6	289.6	288.6	285.7	283.8	278.9	274.1	270.2	262.4	256.6	248.8
10°	316.8	316.8	315.9	311.0	308.1	302.3	297.4	290.6	282.8	275.0	266.3
12.5°	343.1	343.1	339.2	335.3	329.5	321.7	314.9	308.1	297.4	288.6	278.0
15°	367.4	367.4	365.4	358.6	350.8	342.1	332.4	322.7	310.0	298.4	286.7
17.5°	388.7	387.8	384.9	377.1	369.3	358.6	347.0	335.3	319.7	306.1	291.6
20°	403.3	403.3	399.4	390.7	381.9	370.3	357.6	344.0	327.5	311.0	293.5
22.5°	413.0	412.1	408.2	399.4	388.7	377.1	362.5	347.9	329.5	311.0	292.5
25°	416.0	415.0	411.1	401.4	390.7	378.1	362.5	347.0	327.5	308.1	287.7
27.5°	414.0	413.0	409.2	398.5	387.8	373.2	357.6	341.1	321.7	301.3	280.9
30°	408.2	405.3	401.4	391.7	380.0	365.4	348.9	330.4	311.0	289.6	269.2
32.5°	393.6	393.6	388.7	379.0	367.4	351.8	335.3	317.8	296.4	276.0	254.6
35°	377.1	376.1	372.2	361.5	350.8	336.3	319.7	301.3	280.9	260.5	240.1
37.5°	356.7	355.7	351.8	342.1	330.4	316.8	299.3	281.8	262.4	242.0	223.5
40°	334.3	332.4	327.5	319.7	310.0	294.5	278.9	261.4	243.0	224.5	206.0
42.5°	309.1	307.1	303.2	297.4	285.7	272.1	257.5	241.0	223.5	205.1	191.5
45°	277.0	277.0	275.0	269.2	260.5	249.8	234.2	219.6	203.1	186.6	172.0
47.5°	237.1	239.1	238.1	235.2	231.3	221.6	210.9	198.3	182.7	168.1	154.5
50°	202.1	203.1	204.1	202.1	199.2	192.4	185.6	177.9	164.2	150.6	138.0
52.5°	162.3	165.2	165.2	166.2	166.2	164.2	162.3	153.6	146.8	133.1	121.5
55°	133.1	133.1	133.1	135.1	136.1	137.0	135.1	133.1	125.4	115.7	105.0
57.5°	108.8	108.8	110.8	109.8	109.8	111.8	111.8	110.8	105.9	97.2	87.5
60°	89.4	89.4	89.4	89.4	90.4	90.4	90.4	90.4	86.5	78.7	70.9
62.5°	71.9	71.9	71.9	72.9	72.9	72.9	73.9	72.9	69.0	63.2	56.4
65°	57.3	56.4	57.3	57.3	58.3	58.3	58.3	57.3	53.5	49.6	44.7
67.5°	42.8	43.7	43.7	43.7	44.7	45.7	44.7	43.7	40.8	36.9	35.0
70°	31.1	32.1	32.1	32.1	33.0	34.0	33.0	32.1	30.1	28.2	26.2
72.5°	20.4	21.4	21.4	22.4	23.3	23.3	22.4	22.4	21.4	19.4	18.5
75°	12.6	12.6	13.6	13.6	14.6	14.6	14.6	13.6	13.6	12.6	12.6
77.5°	5.8	5.8	6.8	6.8	6.8	7.8	7.8	7.8	7.8	7.8	6.8
80°	1.9	1.9	1.9	1.9	1.9	2.9	2.9	2.9	3.9	3.9	3.9
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	192.4	192.4	192.4	192.4	192.4	192.4	192.4	192.4
2.5°	209.0	206.0	202.1	192.4	182.7	174.9	170.1	169.1
5°	225.5	220.6	211.9	190.5	173.0	159.4	151.6	148.7
7.5°	242.0	233.2	220.6	187.6	161.3	144.8	136.1	132.2
10°	255.6	244.9	228.4	183.7	151.6	132.2	121.5	118.6
12.5°	266.3	253.7	233.2	177.9	141.9	120.5	109.8	106.9
15°	273.1	259.5	236.2	171.0	132.2	110.8	100.1	96.2
17.5°	276.0	259.5	235.2	164.2	123.4	102.0	91.4	88.4
20°	276.0	257.5	232.3	156.5	114.7	93.3	83.6	80.7
22.5°	273.1	253.7	225.5	147.7	106.9	86.5	76.8	73.9
25°	267.3	245.9	217.7	139.9	99.1	79.7	70.9	69.0
27.5°	258.5	237.1	208.0	132.2	92.3	73.9	66.1	64.1
30°	247.8	226.4	197.3	122.5	85.5	69.0	62.2	59.3
32.5°	234.2	213.8	185.6	114.7	79.7	64.1	58.3	56.4
35°	219.6	201.2	173.0	106.9	73.9	60.3	54.4	52.5
37.5°	205.1	185.6	162.3	98.2	69.0	56.4	51.5	49.6
40°	189.5	174.9	150.6	90.4	65.1	53.5	48.6	47.6
42.5°	174.0	158.4	134.1	83.6	60.3	49.6	45.7	44.7
45°	155.5	140.9	121.5	75.8	56.4	47.6	43.7	42.8
47.5°	139.9	126.3	108.8	69.0	52.5	44.7	40.8	39.8
50°	125.4	111.8	95.2	61.2	48.6	41.8	38.9	36.9
52.5°	108.8	97.2	82.6	54.4	44.7	38.9	36.0	35.0
55°	94.3	82.6	69.0	48.6	40.8	36.9	33.0	32.1
57.5°	77.7	68.0	58.3	42.8	36.9	33.0	31.1	29.2
60°	63.2	56.4	49.6	37.9	33.0	31.1	28.2	27.2
62.5°	51.5	46.6	41.8	33.0	29.2	27.2	25.3	23.3
65°	40.8	37.9	34.0	28.2	25.3	24.3	22.4	20.4
67.5°	32.1	30.1	27.2	22.4	21.4	20.4	18.5	16.5
70°	24.3	23.3	21.4	17.5	16.5	17.5	15.5	13.6
72.5°	17.5	16.5	15.5	12.6	12.6	12.6	11.7	9.7
75°	11.7	10.7	9.7	8.7	8.7	8.7	8.7	7.8
77.5°	6.8	6.8	5.8	4.9	5.8	5.8	6.8	6.8
80°	2.9	2.9	2.9	2.9	3.9	3.9	4.9	4.9
82.5°	1.9	1.9	1.9	1.9	2.9	2.9	2.9	2.9
85°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)