

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

(formerly Eaton)

Brand: CORELITE

Report Number: P523880

Luminaire Tested: **SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523880
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7324.6 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

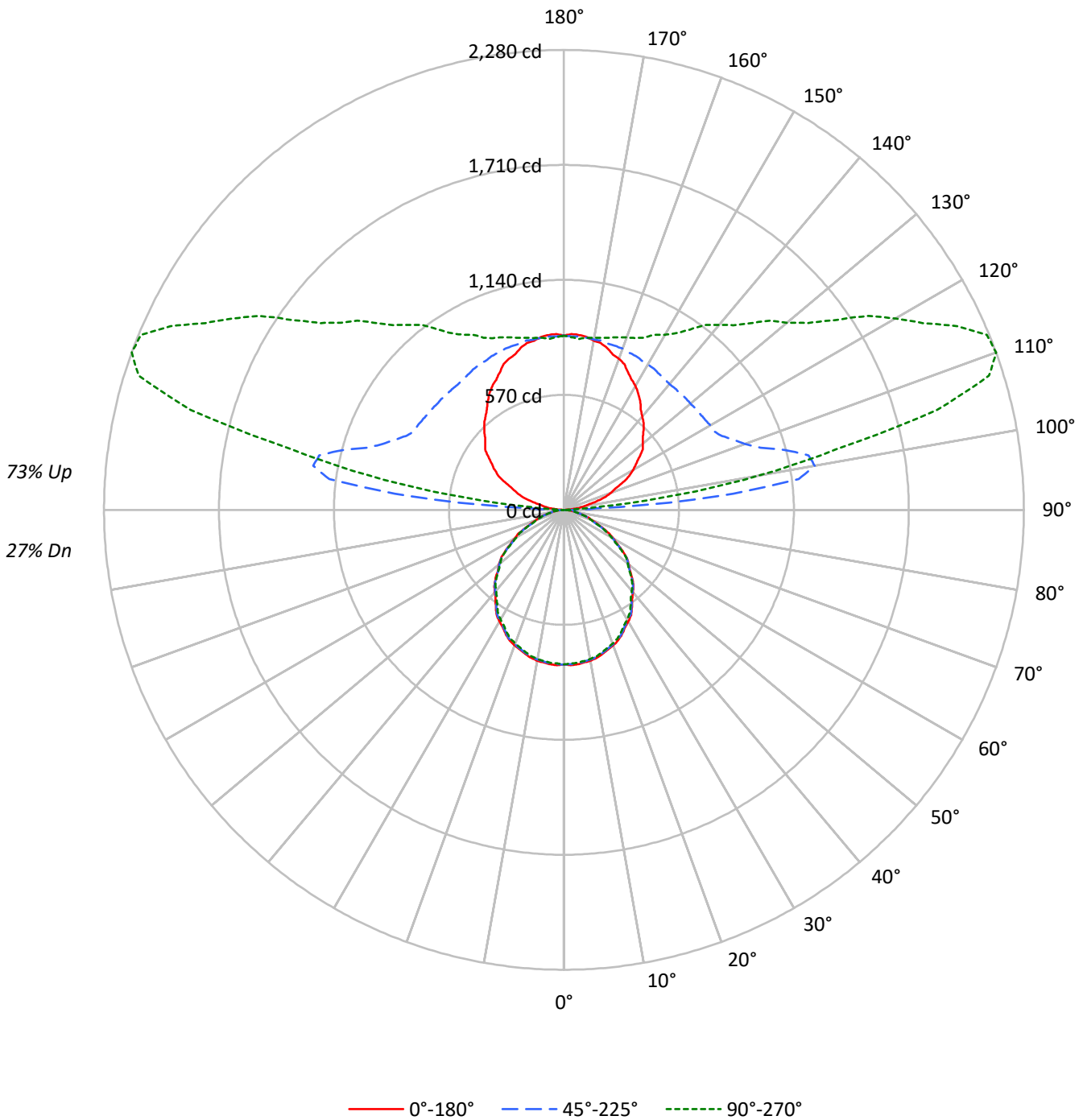
Input Watts (W): 62.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	30	23
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	69	61	55	50	48	44	40	36	33	31	24	23	21	16
4	70	60	53	47	63	54	48	43	42	38	34	32	29	26	22	20	18	14
5	65	53	46	40	57	48	41	36	38	33	29	28	25	23	19	18	16	12
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7071	7071	7071
5°	7122	7079	7054
10°	7111	7060	7028
15°	7063	7025	6986
20°	7016	6977	6924
25°	6934	6886	6817
30°	6804	6769	6683
35°	6627	6581	6498
40°	6415	6375	6301
45°	6239	6196	6135
50°	6016	5977	5919
55°	5704	5628	5585
60°	5193	5045	5019
65°	4576	4384	4371
70°	3949	3787	3787
75°	3401	3351	3305
80°	2997	3034	2959
85°	2350	2562	2562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.0
10°-20°	206.9	2.8
20°-30°	309.9	4.2
30°-40°	363.5	5.0
40°-50°	364.7	5.0
50°-60°	311.1	4.2
60°-70°	202.9	2.8
70°-80°	101.8	1.4
80°-90°	28.2	0.4
90°-100°	393.4	5.4
100°-110°	1119.5	15.3
110°-120°	1072.5	14.6
120°-130°	848.9	11.6
130°-140°	681.4	9.3
140°-150°	533.4	7.3
150°-160°	390.3	5.3
160°-170°	241.8	3.3
170°-180°	82.0	1.1
0°-30°	589.3	8.0
0°-40°	952.8	13.0
0°-60°	1628.6	22.2
0°-90°	1961.4	26.8
90°-120°	2585.4	35.3
90°-150°	4649.1	63.5
90°-180°	5363.0	73.2
0°-180°	7324.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	769	762	764	762	762	73
15°	740	732	736	733	731	209
25°	681	673	676	670	670	313
35°	588	582	584	578	577	368
45°	478	475	475	470	470	368
55°	355	353	350	348	347	315
65°	210	206	201	200	200	209
75°	95	95	94	93	93	103
85°	22	24	24	24	24	26
90°	0	0	0	0	0	3
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.4	766.4	766.4	766.4	766.4
2.5°	771.2	764.9	766.4	765.2	762.1
5°	769.0	761.8	764.3	761.6	761.6
7.5°	763.8	755.9	758.4	755.7	755.6
10°	759.0	751.1	753.6	750.9	750.2
12.5°	752.0	744.1	747.1	743.9	743.8
15°	739.5	732.3	735.5	732.7	731.4
17.5°	725.4	717.5	721.4	717.6	717.1
20°	714.6	706.8	710.6	705.2	705.2
22.5°	701.7	693.9	698.2	691.3	691.3
25°	681.1	673.2	676.4	670.3	669.6
27.5°	656.5	648.7	652.0	645.2	645.1
30°	638.7	631.5	635.4	628.0	627.3
32.5°	619.4	612.7	615.5	608.1	607.4
35°	588.4	582.5	584.3	577.6	576.9
37.5°	555.7	549.7	551.8	546.0	545.8
40°	532.6	528.7	529.3	524.5	523.2
42.5°	511.1	506.7	507.2	502.5	502.3
45°	478.2	474.9	474.9	470.2	470.2
47.5°	443.3	440.8	440.1	436.2	436.0
50°	419.1	417.1	416.4	413.0	412.4
52.5°	393.9	392.9	390.6	387.8	387.7
55°	354.6	353.3	349.9	347.9	347.2
57.5°	312.0	309.4	305.6	302.7	303.2
60°	281.4	278.8	273.4	272.0	272.0
62.5°	251.9	248.7	243.3	241.4	242.5
65°	209.6	205.6	200.8	199.5	200.2
67.5°	171.1	167.6	162.4	162.4	161.9
70°	146.4	144.4	140.4	140.4	140.4
72.5°	124.4	123.5	120.5	120.5	120.0
75°	95.4	95.4	94.0	93.3	92.7
77.5°	71.5	71.7	71.1	70.4	69.2
80°	56.4	57.7	57.1	56.4	55.7
82.5°	42.4	43.8	43.7	42.4	42.3
85°	22.2	24.1	24.2	24.2	24.2
87.5°	5.9	8.0	8.6	8.6	9.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)