

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: P523932

Luminaire Tested: **SQ4-PP3-150U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523932
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-PP3-150U-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 1500 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: 8424.8 lumens
Efficiency: N/A
Efficacy: 117.2 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

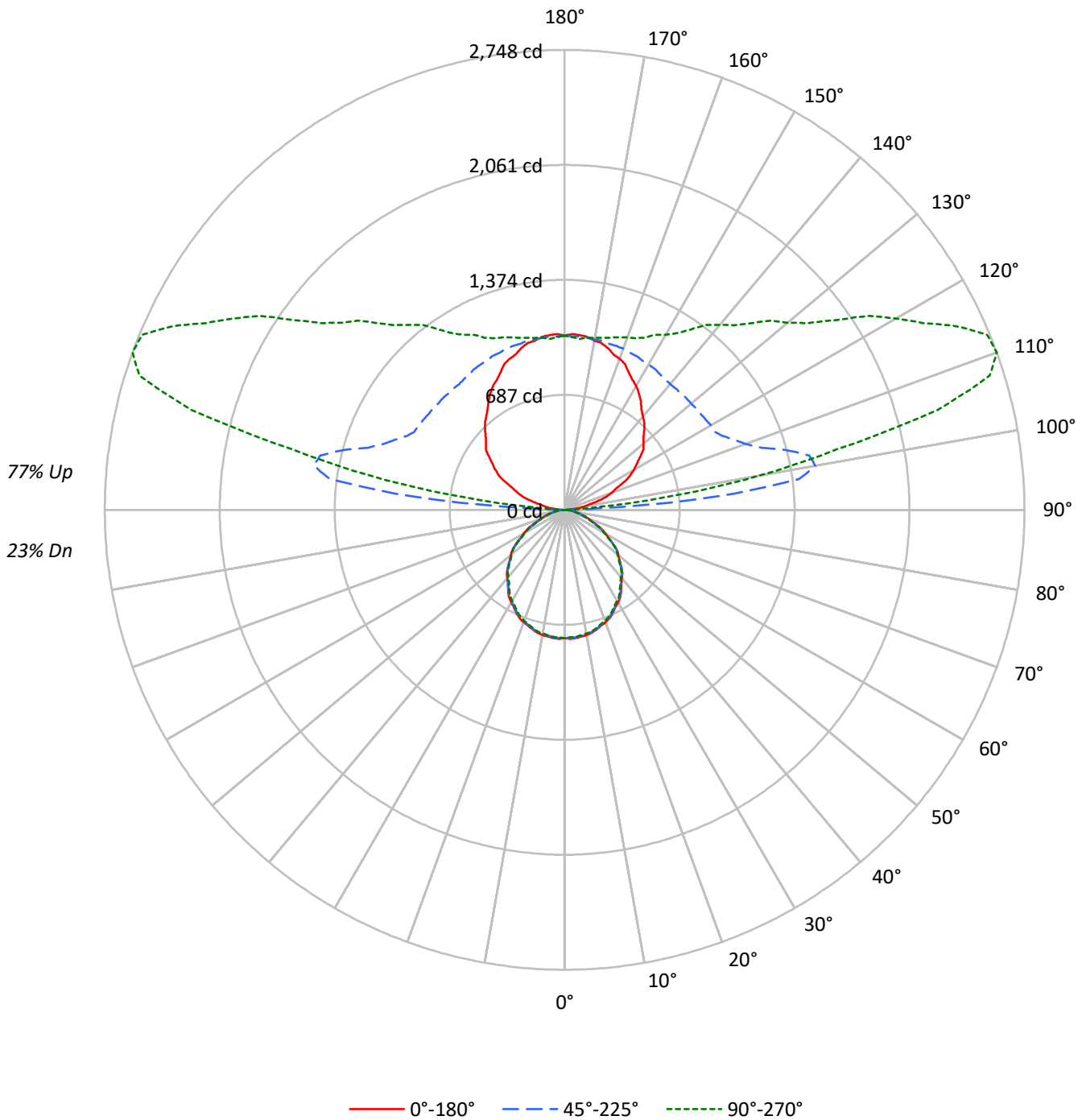
Input Watts (W): 71.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	68	68	68	49	49	49	32	32	32	23
1	92	88	84	81	82	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	53	49	47	38	36	34	25	24	23	17
3	76	67	60	55	68	60	54	50	46	42	39	34	31	29	22	21	19	14
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	12
5	64	53	45	39	57	47	41	36	37	32	29	27	24	21	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9
7	54	42	35	30	48	38	32	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	10	8	6

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	0.9
10°-20°	206.9	2.5
20°-30°	309.9	3.7
30°-40°	363.5	4.3
40°-50°	364.7	4.3
50°-60°	311.1	3.7
60°-70°	202.9	2.4
70°-80°	101.8	1.2
80°-90°	28.2	0.3
90°-100°	474.1	5.6
100°-110°	1349.1	16.0
110°-120°	1292.6	15.3
120°-130°	1023.0	12.1
130°-140°	821.1	9.7
140°-150°	642.8	7.6
150°-160°	470.4	5.6
160°-170°	291.4	3.5
170°-180°	98.9	1.2
0°-30°	589.3	7.0
0°-40°	952.8	11.3
0°-60°	1628.6	19.3
0°-90°	1961.4	23.3
90°-120°	3115.8	37.0
90°-150°	5602.8	66.5
90°-180°	6463.0	76.7
0°-180°	8424.8	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°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	

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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°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)