

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: P523882

Luminaire Tested: **SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523882
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

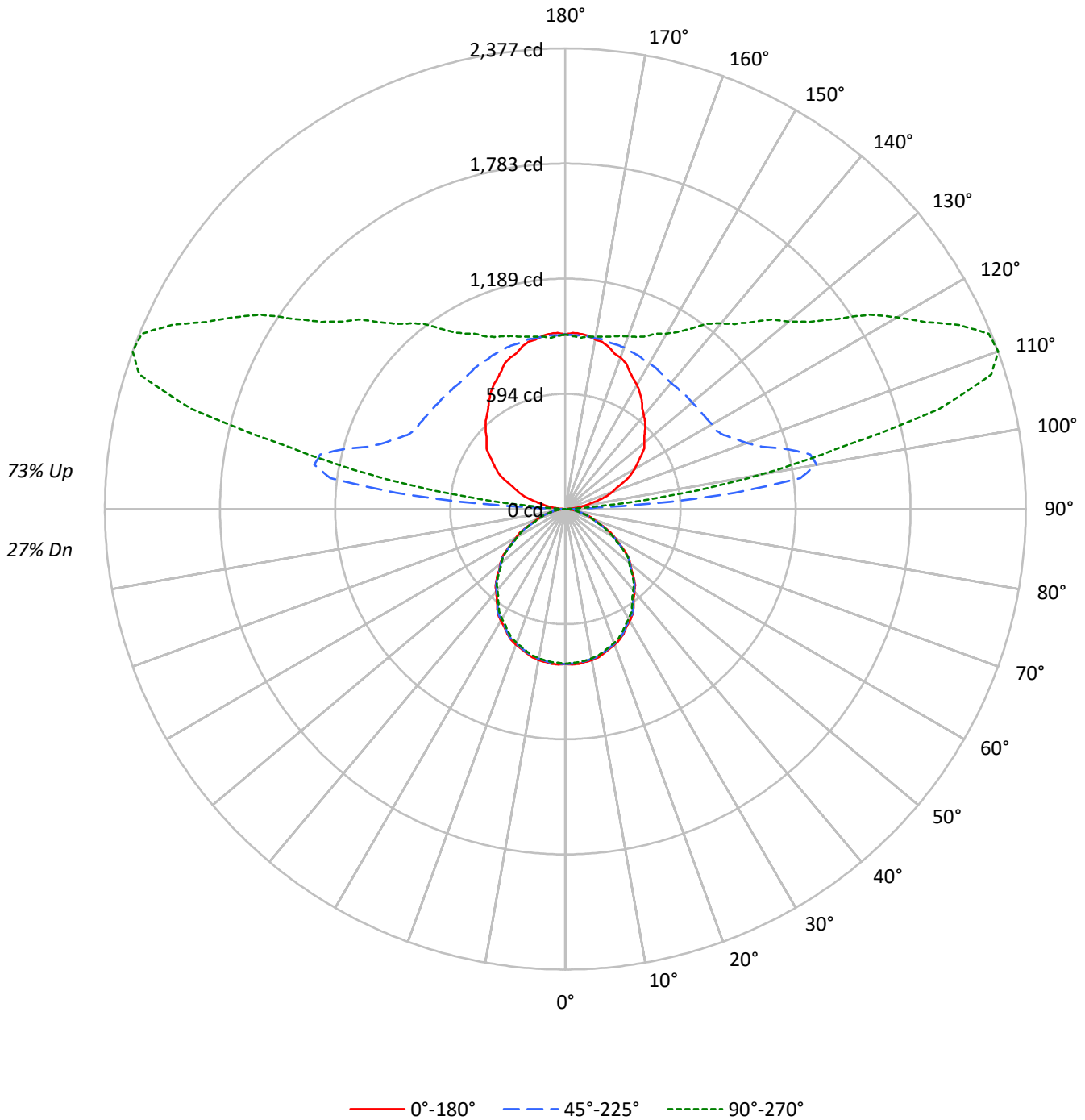
Lumens per Lamp: N/A
Luminaire Lumens: 7637.5 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7373	7373	7373
5°	7427	7381	7355
10°	7414	7362	7329
15°	7365	7325	7285
20°	7317	7275	7220
25°	7230	7180	7108
30°	7095	7058	6968
35°	6910	6863	6776
40°	6689	6647	6571
45°	6506	6460	6396
50°	6272	6232	6172
55°	5948	5870	5825
60°	5414	5259	5233
65°	4770	4571	4556
70°	4119	3949	3949
75°	3543	3493	3444
80°	3124	3161	3087
85°	2445	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.0
10°-20°	215.8	2.8
20°-30°	323.2	4.2
30°-40°	379.1	5.0
40°-50°	380.2	5.0
50°-60°	324.4	4.2
60°-70°	211.5	2.8
70°-80°	106.1	1.4
80°-90°	29.4	0.4
90°-100°	410.2	5.4
100°-110°	1167.3	15.3
110°-120°	1118.4	14.6
120°-130°	885.2	11.6
130°-140°	710.5	9.3
140°-150°	556.2	7.3
150°-160°	407.0	5.3
160°-170°	252.1	3.3
170°-180°	85.5	1.1
0°-30°	614.5	8.0
0°-40°	993.6	13.0
0°-60°	1698.2	22.2
0°-90°	2045.2	26.8
90°-120°	2695.9	35.3
90°-150°	4847.7	63.5
90°-180°	5592.0	73.2
0°-180°	7637.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	802	794	797	794	794	76
15°	771	764	767	764	763	218
25°	710	702	705	699	698	327
35°	614	607	609	602	602	383
45°	499	495	495	490	490	384
55°	370	368	365	363	362	329
65°	218	214	209	208	209	218
75°	99	99	98	97	97	108
85°	23	25	25	25	25	27
90°	0	0	0	0	0	3
95°	44	177	794	275	169	51
105°	181	275	1190	2101	1997	192
115°	337	408	902	1911	2244	332
125°	476	528	861	1429	1708	426
135°	582	630	851	1207	1364	449
145°	686	722	858	1044	1138	429
155°	784	802	878	944	982	362
165°	866	869	888	907	921	244
175°	907	902	899	893	887	86
180°	900	900	900	900	900	

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CATALOG NUMBER: SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.1	799.1	799.1	799.1	799.1
2.5°	804.1	797.6	799.1	797.9	794.6
5°	801.9	794.4	797.0	794.2	794.2
7.5°	796.4	788.2	790.8	788.0	787.9
10°	791.4	783.2	785.8	783.0	782.3
12.5°	784.1	775.9	779.1	775.7	775.6
15°	771.1	763.6	766.9	764.0	762.7
17.5°	756.4	748.2	752.2	748.2	747.7
20°	745.2	737.0	741.0	735.4	735.4
22.5°	731.7	723.5	728.1	720.8	720.8
25°	710.2	701.9	705.3	698.9	698.2
27.5°	684.5	676.4	679.9	672.8	672.6
30°	666.0	658.5	662.5	654.8	654.1
32.5°	645.9	638.9	641.8	634.1	633.4
35°	613.5	607.3	609.3	602.3	601.6
37.5°	579.5	573.2	575.4	569.4	569.1
40°	555.4	551.3	551.9	546.9	545.6
42.5°	533.0	528.3	528.9	524.0	523.7
45°	498.6	495.2	495.1	490.2	490.2
47.5°	462.2	459.6	458.9	454.8	454.7
50°	437.0	435.0	434.2	430.7	430.0
52.5°	410.7	409.7	407.3	404.4	404.2
55°	369.8	368.4	364.9	362.8	362.1
57.5°	325.4	322.6	318.7	315.6	316.1
60°	293.4	290.7	285.0	283.6	283.6
62.5°	262.6	259.3	253.7	251.7	252.8
65°	218.5	214.4	209.4	208.0	208.7
67.5°	178.4	174.8	169.3	169.3	168.8
70°	152.7	150.6	146.4	146.4	146.4
72.5°	129.7	128.7	125.6	125.6	125.1
75°	99.4	99.4	98.0	97.3	96.6
77.5°	74.5	74.8	74.1	73.4	72.1
80°	58.8	60.2	59.5	58.8	58.1
82.5°	44.3	45.6	45.5	44.3	44.1
85°	23.1	25.2	25.2	25.2	25.2
87.5°	6.2	8.4	9.0	9.0	9.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	72.6	168.4	49.0	37.0
95°	44.5	176.7	794.2	274.9	169.4
97.5°	81.8	207.0	1223.1	875.2	599.7
100°	107.8	225.0	1316.2	1333.2	1026.9
102.5°	136.6	244.4	1295.7	1706.5	1439.1
105°	181.4	275.1	1189.5	2101.2	1997.4
107.5°	227.0	311.0	1065.6	2212.4	2304.8
110°	258.4	337.1	994.4	2169.9	2377.4

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CATALOG NUMBER: SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.6	363.2	946.5	2069.2	2365.0
115°	337.2	407.5	902.0	1910.8	2243.9
117.5°	380.0	445.9	875.6	1737.7	2090.5
120°	414.2	469.4	872.9	1638.8	1976.9
122.5°	441.6	496.8	866.1	1552.0	1866.0
125°	475.8	527.7	860.9	1428.7	1708.1
127.5°	513.1	561.7	858.2	1355.0	1585.3
130°	532.3	580.8	854.1	1303.6	1504.5
132.5°	552.8	600.0	854.1	1263.6	1448.3
135°	581.9	630.5	850.7	1206.8	1364.1
137.5°	609.3	656.5	850.3	1158.7	1294.6
140°	629.9	678.4	848.9	1118.9	1249.4
142.5°	653.1	693.6	853.0	1087.1	1204.3
145°	686.3	721.5	857.5	1044.5	1138.2
147.5°	714.8	748.9	865.0	1001.4	1082.4
150°	739.4	762.8	867.8	987.2	1044.1
152.5°	758.6	783.3	870.5	967.9	1020.8
155°	783.9	802.3	878.0	943.9	982.4
157.5°	815.4	826.4	879.7	933.1	960.5
160°	831.8	840.2	886.6	924.8	948.2
162.5°	841.4	851.1	888.0	917.8	935.9
165°	866.1	869.4	888.3	907.4	920.8
167.5°	882.8	879.8	896.2	904.9	910.2
170°	888.3	886.6	893.4	895.3	902.0
172.5°	900.6	894.9	897.5	892.5	897.9
175°	907.1	902.1	898.6	893.3	886.6
177.5°	909.9	901.8	897.5	892.1	893.4
180°	900.3	900.3	900.3	900.3	900.3

(END OF REPORT)