

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: P563364

Luminaire Tested: **SQ4-PP3-050U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563364
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

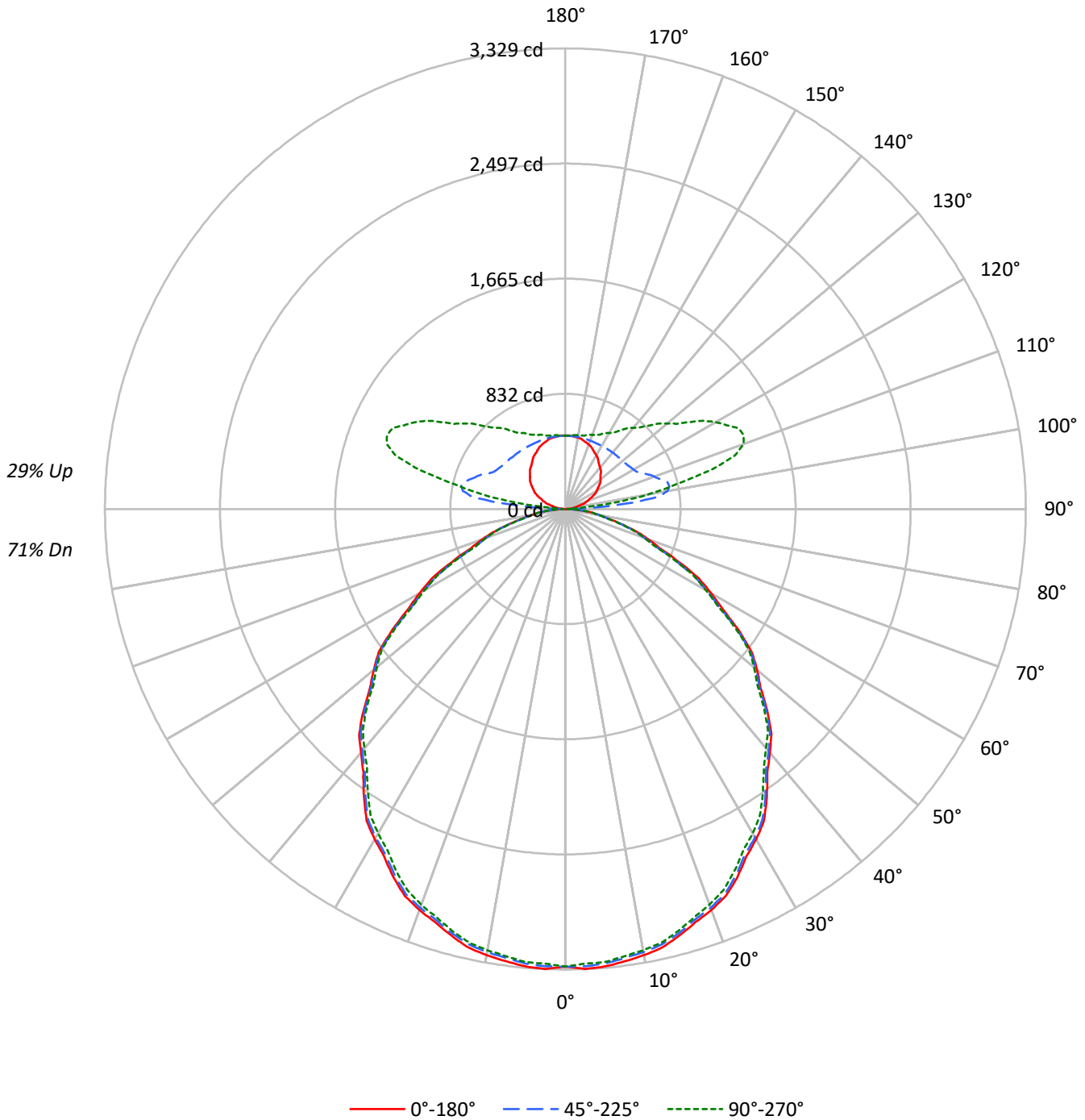
Lumens per Lamp: N/A
Luminaire Lumens: 11929.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 114.8
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15277	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13844	13757	13599
45°	13465	13371	13239
50°	12982	12899	12775
55°	12310	12148	12054
60°	11207	10886	10832
65°	9873	9462	9430
70°	8524	8172	8172
75°	7338	7235	7131
80°	6469	6546	6392
85°	5065	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	2.6
10°-20°	893.1	7.5
20°-30°	1337.7	11.2
30°-40°	1569.1	13.2
40°-50°	1574.0	13.2
50°-60°	1342.7	11.3
60°-70°	875.7	7.3
70°-80°	439.3	3.7
80°-90°	123.6	1.0
90°-100°	254.5	2.1
100°-110°	691.4	5.8
110°-120°	710.8	6.0
120°-130°	568.3	4.8
130°-140°	446.6	3.7
140°-150°	342.4	2.9
150°-160°	246.2	2.1
160°-170°	150.6	1.3
170°-180°	50.7	0.4
0°-30°	2543.5	21.3
0°-40°	4112.6	34.5
0°-60°	7029.3	58.9
0°-90°	8467.9	71.0
90°-120°	1656.7	13.9
90°-150°	3014.0	25.3
90°-180°	3462.0	29.0
0°-180°	11929.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3308	3308	3308	3308	3308	
5°	3319	3288	3299	3287	3287	315
15°	3192	3161	3174	3163	3157	900
25°	2940	2906	2919	2893	2890	1352
35°	2540	2514	2522	2493	2490	1586
45°	2064	2050	2050	2029	2029	1589
55°	1531	1525	1510	1502	1499	1360
65°	904	888	867	861	864	903
75°	412	412	406	403	400	447
85°	96	104	104	104	104	112
90°	2	7	12	15	15	6
95°	38	139	443	193	130	40
105°	123	191	760	1158	1089	130
115°	218	265	609	1211	1379	215
125°	300	342	551	928	1094	267
135°	361	401	535	756	852	279
145°	418	448	528	642	690	262
155°	472	489	525	577	593	218
165°	511	518	527	549	551	144
175°	530	532	528	535	534	50
180°	530	530	530	530	530	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3307.7	3307.7	3307.7	3307.7	3307.7
2.5°	3328.6	3301.4	3307.7	3302.7	3289.1
5°	3319.3	3288.1	3299.0	3287.4	3287.4
7.5°	3296.7	3262.7	3273.5	3261.9	3261.3
10°	3275.8	3241.8	3252.6	3241.0	3238.1
12.5°	3245.7	3211.6	3224.8	3210.9	3210.3
15°	3191.7	3160.6	3174.3	3162.6	3157.0
17.5°	3130.9	3096.8	3113.5	3097.2	3094.9
20°	3084.5	3050.5	3067.1	3043.9	3043.9
22.5°	3028.8	2994.8	3013.7	2983.6	2983.6
25°	2939.5	2905.5	2919.2	2893.1	2890.2
27.5°	2833.4	2800.0	2814.3	2784.7	2784.1
30°	2756.9	2725.7	2742.4	2710.4	2707.6
32.5°	2673.4	2644.5	2656.6	2624.6	2621.8
35°	2539.5	2514.0	2522.1	2493.0	2490.2
37.5°	2398.6	2372.5	2381.8	2356.8	2355.7
40°	2298.9	2281.9	2284.4	2263.9	2258.3
42.5°	2206.1	2186.8	2189.3	2169.0	2167.8
45°	2064.0	2049.9	2049.6	2029.3	2029.3
47.5°	1913.3	1902.5	1899.4	1882.6	1882.0
50°	1808.9	1800.4	1797.3	1782.8	1780.0
52.5°	1699.9	1696.0	1686.0	1673.8	1673.3
55°	1530.6	1525.0	1510.4	1501.6	1498.8
57.5°	1346.8	1335.5	1319.0	1306.3	1308.6
60°	1214.7	1203.3	1179.9	1174.1	1174.1
62.5°	1087.1	1073.5	1050.0	1042.0	1046.5
65°	904.5	887.5	866.8	861.1	863.9
67.5°	738.7	723.3	701.0	700.9	698.6
70°	632.0	623.5	605.9	605.9	605.9
72.5°	536.9	532.9	520.1	520.0	517.8
75°	411.7	411.7	405.9	402.9	400.1
77.5°	308.4	309.6	306.7	303.7	298.6
80°	243.5	249.2	246.4	243.4	240.6
82.5°	183.2	188.9	188.4	183.2	182.6
85°	95.7	104.2	104.4	104.4	104.4
87.5°	25.9	35.9	39.5	40.2	42.5
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.7	121.0	52.0	44.0
95°	37.5	139.2	443.2	192.9	129.6
97.5°	62.1	153.7	679.5	528.6	371.3
100°	78.4	163.4	751.8	762.1	615.4
102.5°	94.8	173.1	770.9	942.5	813.1
105°	122.7	191.1	760.3	1157.6	1089.3
107.5°	151.7	212.1	716.3	1268.7	1287.7
110°	172.2	227.2	683.6	1290.6	1372.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	242.2	650.8	1272.4	1395.4
115°	218.2	264.9	608.6	1210.7	1379.1
117.5°	244.8	289.5	581.6	1123.3	1312.9
120°	262.5	305.9	569.4	1064.6	1252.9
122.5°	277.5	320.9	561.2	1005.8	1187.5
125°	300.0	341.7	550.6	927.7	1094.4
127.5°	320.1	361.5	544.8	868.5	1011.6
130°	332.4	372.4	542.1	831.4	959.7
132.5°	344.7	384.7	539.4	799.7	913.4
135°	361.4	401.4	535.3	755.7	852.3
137.5°	379.5	415.8	533.2	716.8	798.1
140°	390.4	425.4	531.9	692.1	765.4
142.5°	401.3	433.6	530.5	672.7	734.0
145°	417.6	447.6	528.4	642.1	690.4
147.5°	436.1	461.7	526.7	618.0	656.0
150°	448.3	470.0	526.7	604.1	634.1
152.5°	457.9	476.9	525.4	591.7	616.4
155°	472.2	488.9	525.0	576.6	593.2
157.5°	486.2	499.2	525.0	566.2	578.9
160°	494.4	506.0	525.0	559.4	569.4
162.5°	502.5	511.5	526.4	553.8	561.2
165°	511.4	518.1	526.7	548.9	550.6
167.5°	520.6	523.9	528.4	543.1	544.5
170°	523.3	526.7	528.4	540.4	540.4
172.5°	526.1	528.1	528.4	537.7	537.7
175°	530.2	531.8	528.4	535.2	533.6
177.5°	531.5	531.5	527.4	532.8	530.2
180°	530.2	530.2	530.2	530.2	530.2

(END OF REPORT)