

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: P564311

Luminaire Tested: **SQ4-PR1-100U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564311
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

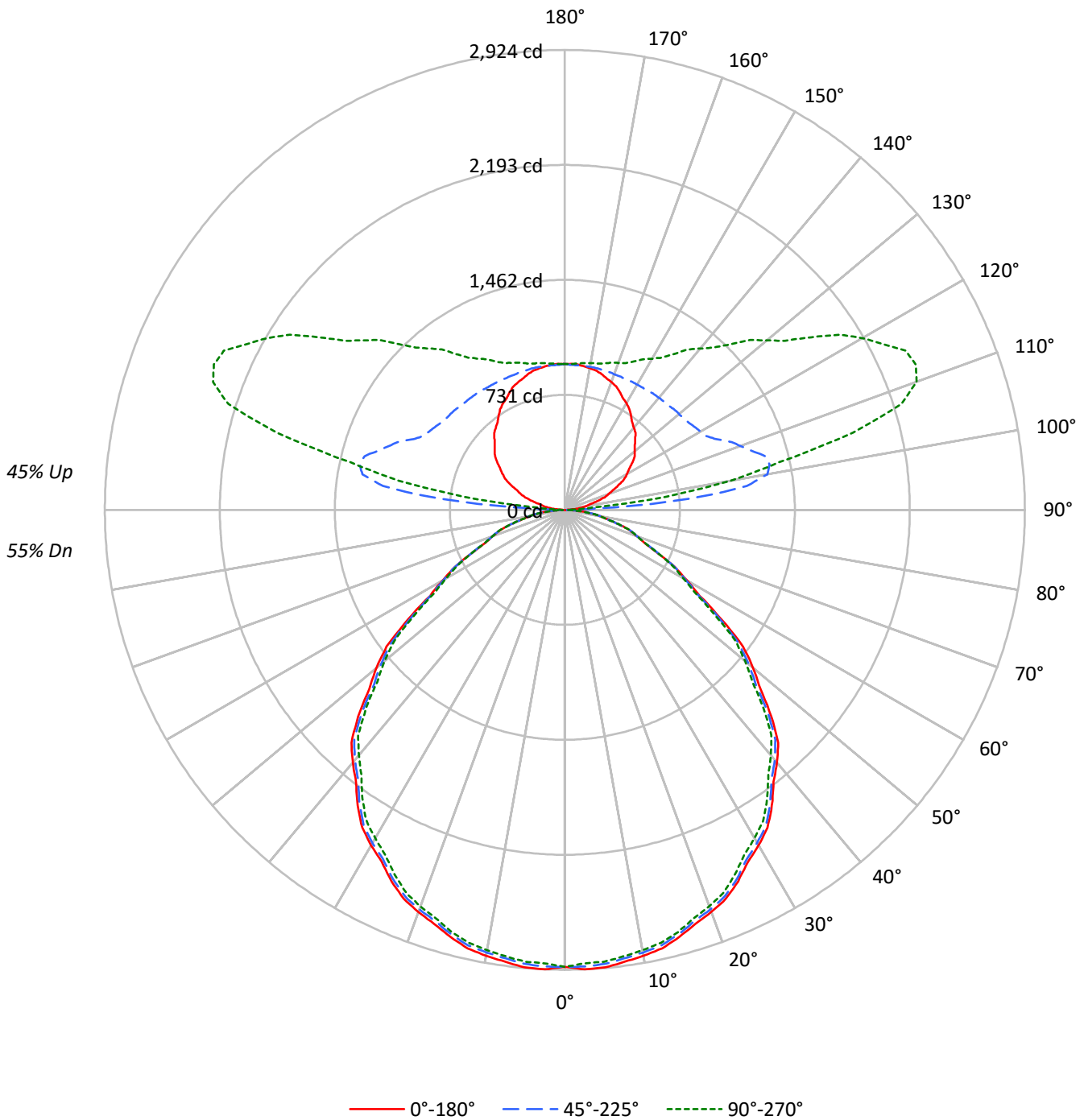
Lumens per Lamp: N/A
Luminaire Lumens: 13290.6 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17233	17083	16839
40°	16841	16660	16358
45°	16154	15871	15544
50°	14945	14585	14298
55°	13044	12749	12480
60°	10991	10899	10684
65°	9507	9543	9470
70°	8733	8778	8778
75°	8387	8387	8446
80°	7892	7980	7892
85°	6359	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	2.1
10°-20°	786.2	5.9
20°-30°	1185.8	8.9
30°-40°	1412.9	10.6
40°-50°	1393.0	10.5
50°-60°	1064.6	8.0
60°-70°	658.8	5.0
70°-80°	374.2	2.8
80°-90°	115.8	0.9
90°-100°	434.2	3.3
100°-110°	1198.7	9.0
110°-120°	1236.3	9.3
120°-130°	993.5	7.5
130°-140°	780.8	5.9
140°-150°	598.8	4.5
150°-160°	430.4	3.2
160°-170°	263.2	2.0
170°-180°	88.7	0.7
0°-30°	2246.8	16.9
0°-40°	3659.7	27.5
0°-60°	6117.4	46.0
0°-90°	7266.2	54.7
90°-120°	2869.2	21.6
90°-150°	5242.2	39.4
90°-180°	6024.0	45.3
0°-180°	13290.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2906	2906	2906	2906	2906	
5°	2921	2889	2898	2888	2883	277
15°	2811	2781	2793	2783	2778	793
25°	2606	2574	2588	2560	2558	1199
35°	2295	2268	2275	2245	2243	1432
45°	1857	1833	1825	1792	1787	1423
55°	1216	1197	1189	1169	1164	1090
65°	653	648	656	651	651	662
75°	353	353	353	355	355	373
85°	90	95	100	100	100	105
90°	3	6	12	13	15	8
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2923.8	2898.4	2905.8	2899.5	2885.8
5°	2920.8	2889.0	2898.3	2888.2	2883.3
7.5°	2898.3	2867.0	2876.3	2866.2	2863.3
10°	2878.3	2848.9	2858.3	2848.1	2843.3
12.5°	2856.3	2824.9	2836.2	2824.1	2819.2
15°	2810.7	2781.3	2793.2	2783.1	2778.2
17.5°	2760.7	2729.3	2741.1	2729.5	2723.1
20°	2720.6	2691.2	2703.1	2685.5	2683.1
22.5°	2676.6	2647.2	2659.0	2635.5	2635.0
25°	2605.5	2573.7	2588.0	2560.4	2557.9
27.5°	2520.9	2491.5	2503.4	2475.3	2472.3
30°	2462.8	2433.4	2445.3	2415.2	2410.3
32.5°	2396.7	2369.3	2379.2	2349.1	2346.2
35°	2295.1	2268.2	2275.1	2245.0	2242.6
37.5°	2179.5	2155.0	2159.0	2125.9	2123.4
40°	2097.4	2072.9	2074.9	2039.8	2037.3
42.5°	2007.3	1982.8	1980.8	1945.7	1943.2
45°	1857.1	1832.7	1824.6	1791.9	1787.0
47.5°	1685.9	1661.5	1646.4	1619.8	1616.3
50°	1561.8	1537.3	1524.2	1501.6	1494.2
52.5°	1427.6	1403.2	1392.1	1371.4	1364.1
55°	1216.4	1196.8	1188.9	1168.7	1163.8
57.5°	1015.7	1002.4	1000.1	980.6	978.6
60°	893.5	886.2	886.0	868.5	868.5
62.5°	789.4	784.0	787.9	776.3	774.4
65°	653.2	648.4	655.7	650.7	650.7
67.5°	545.6	545.6	550.1	548.1	548.1
70°	485.6	485.6	488.1	488.1	488.1
72.5°	431.5	429.5	436.0	436.0	434.0
75°	352.9	352.9	352.9	355.4	355.4
77.5°	274.8	275.3	277.3	276.8	274.8
80°	222.8	225.2	225.3	222.8	222.8
82.5°	170.7	173.1	173.2	172.7	170.7
85°	90.1	95.0	100.1	100.1	100.1
87.5°	26.6	35.0	42.4	42.7	41.0
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)