

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: P564033

Luminaire Tested: **SQ4-PR1-050U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564033
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

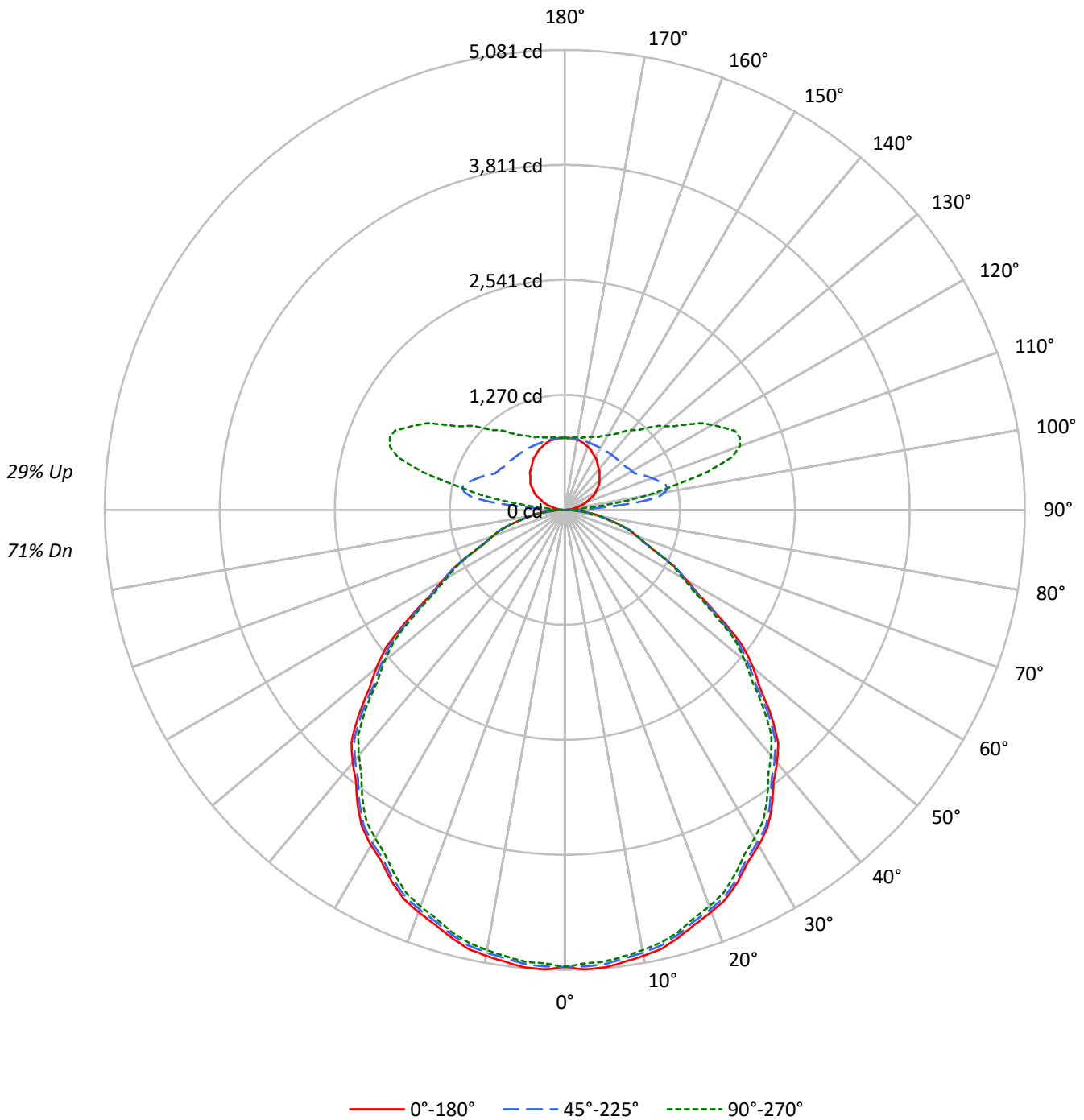
Lumens per Lamp: N/A
Luminaire Lumens: 17819.1 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 167
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14843	14631
40°	14633	14476	14213
45°	14036	13790	13507
50°	12985	12673	12423
55°	11334	11077	10844
60°	9550	9470	9283
65°	8261	8293	8230
70°	7587	7626	7626
75°	7287	7287	7339
80°	6856	6932	6856
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.5	2.7
10°-20°	1366.2	7.7
20°-30°	2060.7	11.6
30°-40°	2455.4	13.8
40°-50°	2420.8	13.6
50°-60°	1850.1	10.4
60°-70°	1144.9	6.4
70°-80°	650.3	3.6
80°-90°	200.9	1.1
90°-100°	381.7	2.1
100°-110°	1037.0	5.8
110°-120°	1066.3	6.0
120°-130°	852.5	4.8
130°-140°	669.8	3.8
140°-150°	513.6	2.9
150°-160°	369.4	2.1
160°-170°	225.9	1.3
170°-180°	76.1	0.4
0°-30°	3904.5	21.9
0°-40°	6359.9	35.7
0°-60°	10630.7	59.7
0°-90°	12626.8	70.9
90°-120°	2485.0	13.9
90°-150°	4521.0	25.4
90°-180°	5192.0	29.1
0°-180°	17819.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5050	5050	5050	5050	5050	
5°	5076	5020	5037	5019	5011	482
15°	4884	4833	4854	4836	4828	1378
25°	4528	4472	4497	4449	4445	2084
35°	3988	3942	3954	3901	3897	2489
45°	3227	3185	3171	3114	3106	2472
55°	2114	2080	2066	2031	2022	1894
65°	1135	1127	1140	1131	1131	1150
75°	613	613	613	618	618	648
85°	157	165	174	174	174	182
90°	3	10	18	23	23	10
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5049.7	5049.7	5049.7	5049.7	5049.7
2.5°	5081.0	5036.8	5049.7	5038.7	5014.9
5°	5075.8	5020.5	5036.6	5019.1	5010.6
7.5°	5036.6	4982.2	4998.4	4980.9	4975.8
10°	5001.9	4950.8	4967.1	4949.5	4941.0
12.5°	4963.6	4909.1	4928.8	4907.7	4899.2
15°	4884.4	4833.4	4854.0	4836.4	4827.9
17.5°	4797.4	4743.0	4763.5	4743.2	4732.2
20°	4727.8	4676.8	4697.4	4666.8	4662.6
22.5°	4651.3	4600.3	4620.8	4579.9	4579.1
25°	4527.8	4472.5	4497.3	4449.4	4445.1
27.5°	4380.8	4329.7	4350.3	4301.5	4296.4
30°	4279.8	4228.8	4249.4	4197.0	4188.5
32.5°	4165.0	4117.4	4134.6	4082.3	4077.2
35°	3988.4	3941.7	3953.6	3901.3	3897.1
37.5°	3787.5	3745.0	3751.8	3694.3	3690.1
40°	3644.8	3602.3	3605.7	3544.7	3540.4
42.5°	3488.2	3445.7	3442.1	3381.2	3376.9
45°	3227.3	3184.8	3170.7	3114.0	3105.5
47.5°	2929.8	2887.3	2861.1	2814.8	2808.9
50°	2714.0	2671.5	2648.8	2609.4	2596.6
52.5°	2480.9	2438.4	2419.2	2383.2	2370.4
55°	2113.8	2079.8	2066.0	2031.0	2022.5
57.5°	1765.0	1742.0	1738.0	1704.0	1700.6
60°	1552.7	1540.0	1539.7	1509.3	1509.3
62.5°	1371.8	1362.5	1369.2	1349.1	1345.7
65°	1135.2	1126.7	1139.6	1130.9	1130.9
67.5°	948.2	948.2	956.0	952.5	952.5
70°	843.8	843.8	848.1	848.1	848.1
72.5°	749.8	746.4	757.7	757.6	754.2
75°	613.3	613.3	613.3	617.6	617.6
77.5°	477.6	478.4	481.9	481.0	477.6
80°	387.1	391.4	391.4	387.1	387.1
82.5°	296.6	300.9	301.0	300.0	296.6
85°	156.6	165.1	174.0	174.0	174.0
87.5°	45.7	60.9	73.2	74.1	70.7
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)