

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: P564095

Luminaire Tested: **SQ4-PR1-075U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564095
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

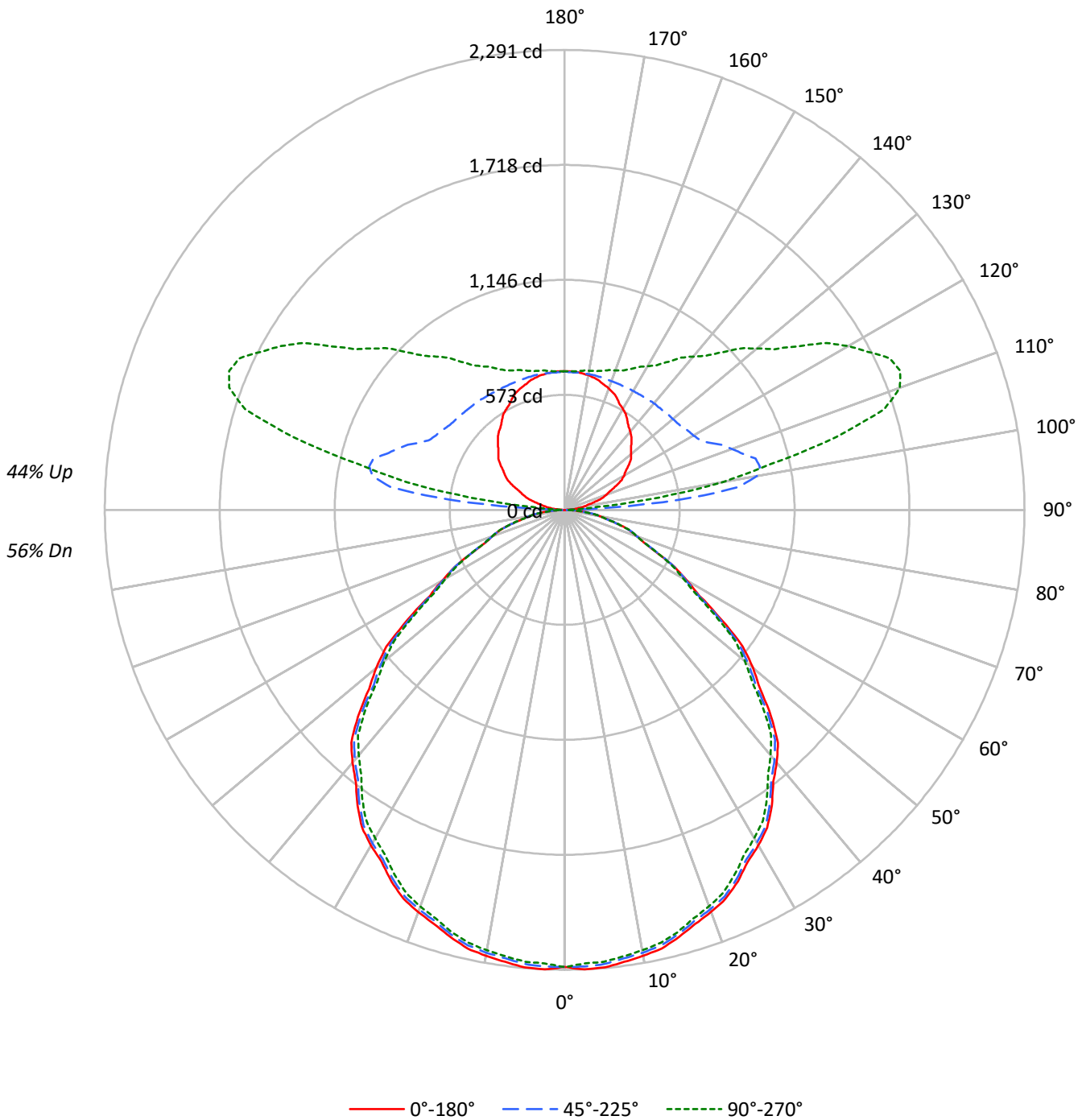
Lumens per Lamp: N/A
Luminaire Lumens: 10184.8 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13915
15°	14025	13938	13863
20°	13954	13865	13762
25°	13856	13763	13603
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12819
45°	12659	12437	12181
50°	11710	11429	11204
55°	10222	9990	9780
60°	8614	8541	8372
65°	7450	7479	7421
70°	6843	6879	6879
75°	6571	6571	6619
80°	6185	6252	6185
85°	4982	5540	5540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	2.1
10°-20°	616.1	6.0
20°-30°	929.2	9.1
30°-40°	1107.2	10.9
40°-50°	1091.6	10.7
50°-60°	834.2	8.2
60°-70°	516.3	5.1
70°-80°	293.2	2.9
80°-90°	91.0	0.9
90°-100°	325.1	3.2
100°-110°	894.5	8.8
110°-120°	923.3	9.1
120°-130°	739.7	7.3
130°-140°	581.0	5.7
140°-150°	445.2	4.4
150°-160°	320.1	3.1
160°-170°	195.7	1.9
170°-180°	66.0	0.6
0°-30°	1760.7	17.3
0°-40°	2867.9	28.2
0°-60°	4793.7	47.1
0°-90°	5694.2	55.9
90°-120°	2142.9	21.0
90°-150°	3908.8	38.4
90°-180°	4491.0	44.1
0°-180°	10184.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2277	2277	2277	2277	2277	
5°	2289	2264	2271	2263	2259	217
15°	2202	2180	2189	2181	2177	622
25°	2042	2017	2028	2006	2004	940
35°	1798	1777	1783	1759	1757	1122
45°	1455	1436	1430	1404	1400	1115
55°	953	938	932	916	912	854
65°	512	508	514	510	510	519
75°	276	276	276	278	278	292
85°	71	74	78	78	78	82
90°	2	6	10	13	13	6
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2277.1	2277.1	2277.1	2277.1	2277.1
2.5°	2291.2	2271.2	2277.1	2272.1	2261.4
5°	2288.8	2263.9	2271.2	2263.2	2259.4
7.5°	2271.2	2246.6	2253.9	2246.0	2243.7
10°	2255.5	2232.5	2239.8	2231.9	2228.0
12.5°	2238.2	2213.7	2222.5	2213.0	2209.2
15°	2202.5	2179.5	2188.8	2180.9	2177.0
17.5°	2163.3	2138.8	2148.0	2138.9	2133.9
20°	2131.9	2108.9	2118.2	2104.4	2102.5
22.5°	2097.4	2074.4	2083.7	2065.2	2064.8
25°	2041.7	2016.8	2028.0	2006.4	2004.4
27.5°	1975.4	1952.4	1961.7	1939.7	1937.4
30°	1929.9	1906.9	1916.2	1892.6	1888.7
32.5°	1878.1	1856.6	1864.4	1840.8	1838.5
35°	1798.5	1777.4	1782.8	1759.2	1757.3
37.5°	1707.9	1688.7	1691.8	1665.9	1664.0
40°	1643.6	1624.4	1625.9	1598.4	1596.5
42.5°	1573.0	1553.8	1552.2	1524.7	1522.7
45°	1455.3	1436.1	1429.8	1404.2	1400.4
47.5°	1321.1	1301.9	1290.1	1269.3	1266.6
50°	1223.8	1204.7	1194.4	1176.6	1170.9
52.5°	1118.7	1099.5	1090.9	1074.7	1068.9
55°	953.2	937.8	931.6	915.8	912.0
57.5°	795.9	785.5	783.7	768.4	766.9
60°	700.2	694.4	694.3	680.6	680.6
62.5°	618.6	614.4	617.4	608.4	606.8
65°	511.9	508.1	513.9	509.9	509.9
67.5°	427.6	427.6	431.1	429.5	429.5
70°	380.5	380.5	382.5	382.5	382.5
72.5°	338.1	336.6	341.7	341.6	340.1
75°	276.5	276.5	276.5	278.5	278.5
77.5°	215.3	215.7	217.3	216.9	215.3
80°	174.6	176.5	176.5	174.6	174.6
82.5°	133.8	135.7	135.7	135.3	133.8
85°	70.6	74.4	78.5	78.5	78.5
87.5°	20.7	27.7	33.4	34.0	32.5
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)