

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: P564127

Luminaire Tested: **SQ4-PR1-075U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564127
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-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

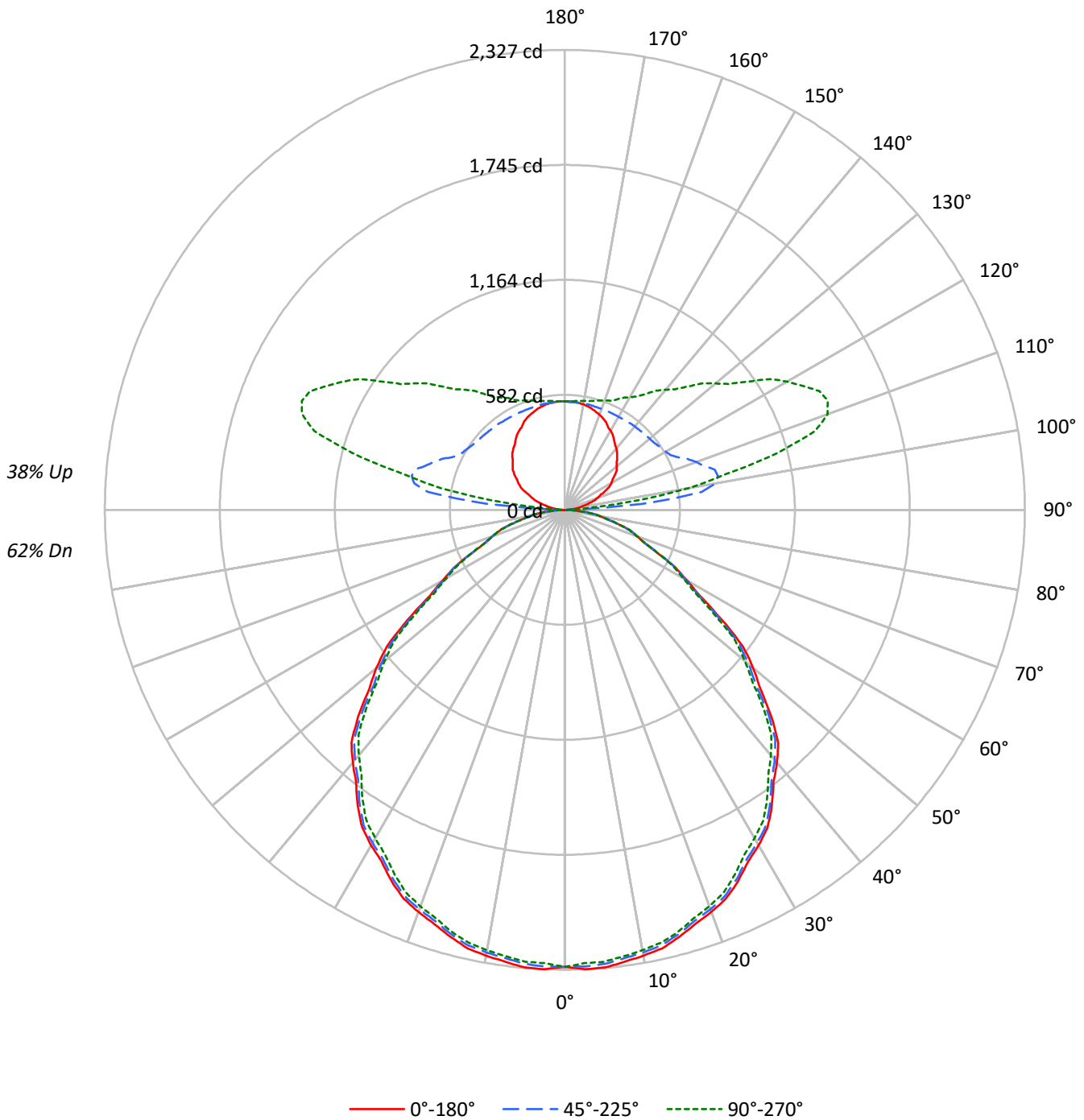
Lumens per Lamp: N/A
Luminaire Lumens: 9355.4 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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	50	30	10	0	
RCR																						
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62				
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53				
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45				
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38				
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33				
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29				
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26				
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23				
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20				
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18				
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14077
20°	14170	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13594	13399
40°	13401	13257	13017
45°	12855	12629	12369
50°	11892	11606	11377
55°	10379	10145	9931
60°	8746	8673	8502
65°	7565	7594	7536
70°	6949	6985	6985
75°	6673	6673	6721
80°	6280	6347	6280
85°	5060	5625	5625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	2.3
10°-20°	625.6	6.7
20°-30°	943.6	10.1
30°-40°	1124.3	12.0
40°-50°	1108.5	11.8
50°-60°	847.2	9.1
60°-70°	524.3	5.6
70°-80°	297.8	3.2
80°-90°	92.0	1.0
90°-100°	258.7	2.8
100°-110°	711.8	7.6
110°-120°	734.7	7.9
120°-130°	588.6	6.3
130°-140°	462.3	4.9
140°-150°	354.3	3.8
150°-160°	254.7	2.7
160°-170°	155.8	1.7
170°-180°	52.5	0.6
0°-30°	1787.9	19.1
0°-40°	2912.3	31.1
0°-60°	4867.9	52.0
0°-90°	5781.9	61.8
90°-120°	1705.2	18.2
90°-150°	3110.5	33.2
90°-180°	3573.0	38.2
0°-180°	9355.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2324	2299	2306	2298	2294	221
15°	2237	2213	2223	2215	2211	631
25°	2073	2048	2059	2037	2036	954
35°	1826	1805	1810	1786	1784	1140
45°	1478	1458	1452	1426	1422	1132
55°	968	952	946	930	926	867
65°	520	516	522	518	518	527
75°	281	281	281	283	283	297
85°	72	76	80	80	80	83
90°	1	5	8	10	10	5
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2312.3	2312.3	2312.3	2312.3	2312.3
2.5°	2326.7	2306.4	2312.3	2307.3	2296.4
5°	2324.3	2299.0	2306.3	2298.3	2294.4
7.5°	2306.3	2281.4	2288.8	2280.8	2278.5
10°	2290.4	2267.0	2274.5	2266.4	2262.5
12.5°	2272.9	2248.0	2257.0	2247.3	2243.4
15°	2236.6	2213.3	2222.7	2214.6	2210.7
17.5°	2196.8	2171.9	2181.3	2172.0	2166.9
20°	2164.9	2141.6	2151.0	2137.0	2135.1
22.5°	2129.9	2106.5	2115.9	2097.2	2096.8
25°	2073.3	2048.0	2059.4	2037.4	2035.5
27.5°	2006.0	1982.6	1992.1	1969.7	1967.4
30°	1959.8	1936.4	1945.9	1921.9	1918.0
32.5°	1907.2	1885.4	1893.3	1869.3	1867.0
35°	1826.4	1804.9	1810.4	1786.5	1784.5
37.5°	1734.3	1714.9	1718.0	1691.7	1689.7
40°	1669.0	1649.5	1651.1	1623.2	1621.2
42.5°	1597.3	1577.8	1576.2	1548.3	1546.3
45°	1477.8	1458.3	1451.9	1425.9	1422.0
47.5°	1341.6	1322.1	1310.1	1288.9	1286.2
50°	1242.8	1223.3	1212.9	1194.9	1189.0
52.5°	1136.0	1116.6	1107.8	1091.3	1085.5
55°	967.9	952.4	946.0	930.0	926.1
57.5°	808.2	797.7	795.9	780.3	778.7
60°	711.0	705.2	705.0	691.1	691.1
62.5°	628.2	623.9	627.0	617.8	616.2
65°	519.8	515.9	521.8	517.8	517.8
67.5°	434.2	434.2	437.8	436.2	436.2
70°	386.4	386.4	388.4	388.4	388.4
72.5°	343.4	341.8	346.9	346.9	345.4
75°	280.8	280.8	280.8	282.8	282.8
77.5°	218.7	219.1	220.7	220.2	218.7
80°	177.3	179.2	179.2	177.3	177.3
82.5°	135.8	137.8	137.8	137.4	135.8
85°	71.7	75.6	79.7	79.7	79.7
87.5°	20.9	27.9	33.5	33.9	32.4
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)