

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: P564118

Luminaire Tested: **SQ4-PR1-075U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564118
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-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

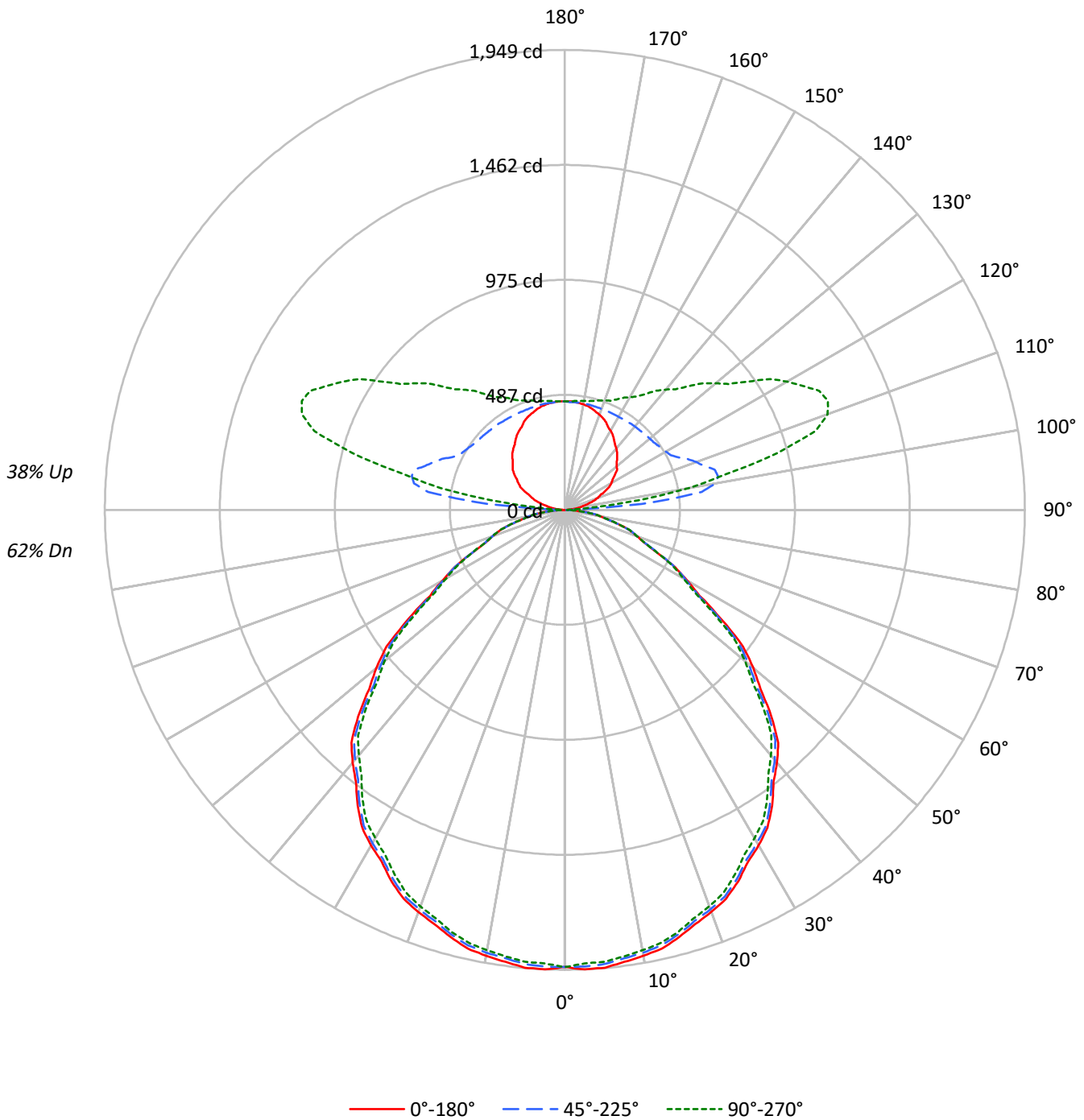
Lumens per Lamp: N/A
Luminaire Lumens: 7837.8 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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	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°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17807	17694	17562
25°	17683	17564	17360
30°	17492	17367	17118
35°	17234	17083	16838
40°	16841	16659	16358
45°	16155	15871	15545
50°	14945	14586	14297
55°	13044	12749	12481
60°	10992	10900	10684
65°	9507	9545	9470
70°	8732	8778	8778
75°	8388	8388	8445
80°	7890	7980	7890
85°	6362	7061	7061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	2.3
10°-20°	524.1	6.7
20°-30°	790.6	10.1
30°-40°	941.9	12.0
40°-50°	928.7	11.8
50°-60°	709.8	9.1
60°-70°	439.2	5.6
70°-80°	249.5	3.2
80°-90°	77.0	1.0
90°-100°	216.8	2.8
100°-110°	596.3	7.6
110°-120°	615.5	7.9
120°-130°	493.1	6.3
130°-140°	387.3	4.9
140°-150°	296.8	3.8
150°-160°	213.4	2.7
160°-170°	130.5	1.7
170°-180°	44.0	0.6
0°-30°	1497.9	19.1
0°-40°	2439.8	31.1
0°-60°	4078.3	52.0
0°-90°	4844.0	61.8
90°-120°	1428.6	18.2
90°-150°	2605.9	33.2
90°-180°	2994.0	38.2
0°-180°	7837.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1947	1926	1932	1926	1922	185
15°	1874	1854	1862	1855	1852	529
25°	1737	1716	1725	1707	1705	799
35°	1530	1512	1517	1497	1495	955
45°	1238	1222	1216	1195	1191	949
55°	811	798	793	779	776	727
65°	436	432	437	434	434	441
75°	235	235	235	237	237	248
85°	60	63	67	67	67	70
90°	1	4	7	9	9	5
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.2	1937.2	1937.2	1937.2	1937.2
2.5°	1949.2	1932.3	1937.2	1933.0	1923.9
5°	1947.2	1926.0	1932.2	1925.5	1922.2
7.5°	1932.2	1911.3	1917.5	1910.8	1908.8
10°	1918.9	1899.3	1905.5	1898.8	1895.5
12.5°	1904.2	1883.3	1890.8	1882.7	1879.5
15°	1873.8	1854.2	1862.1	1855.4	1852.1
17.5°	1840.4	1819.6	1827.4	1819.7	1815.4
20°	1813.7	1794.2	1802.1	1790.3	1788.7
22.5°	1784.4	1764.8	1772.7	1757.0	1756.7
25°	1737.0	1715.8	1725.3	1706.9	1705.3
27.5°	1680.6	1661.0	1668.9	1650.2	1648.2
30°	1641.9	1622.3	1630.2	1610.1	1606.8
32.5°	1597.8	1579.6	1586.1	1566.1	1564.1
35°	1530.1	1512.1	1516.7	1496.7	1495.0
37.5°	1453.0	1436.7	1439.3	1417.3	1415.6
40°	1398.3	1382.0	1383.2	1359.9	1358.2
42.5°	1338.2	1321.9	1320.5	1297.1	1295.5
45°	1238.1	1221.8	1216.4	1194.6	1191.4
47.5°	1124.0	1107.6	1097.6	1079.8	1077.6
50°	1041.2	1024.9	1016.2	1001.0	996.1
52.5°	951.8	935.4	928.1	914.3	909.4
55°	810.9	797.9	792.6	779.2	775.9
57.5°	677.1	668.3	666.8	653.7	652.4
60°	595.7	590.8	590.7	579.0	579.0
62.5°	526.3	522.7	525.3	517.6	516.3
65°	435.5	432.2	437.2	433.8	433.8
67.5°	363.7	363.7	366.8	365.4	365.4
70°	323.7	323.7	325.4	325.4	325.4
72.5°	287.7	286.4	290.7	290.6	289.3
75°	235.3	235.3	235.3	236.9	236.9
77.5°	183.2	183.5	184.9	184.5	183.2
80°	148.5	150.1	150.2	148.5	148.5
82.5°	113.8	115.4	115.5	115.1	113.8
85°	60.1	63.3	66.7	66.7	66.7
87.5°	17.5	23.3	28.1	28.4	27.1
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)