

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: P520065

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520065
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

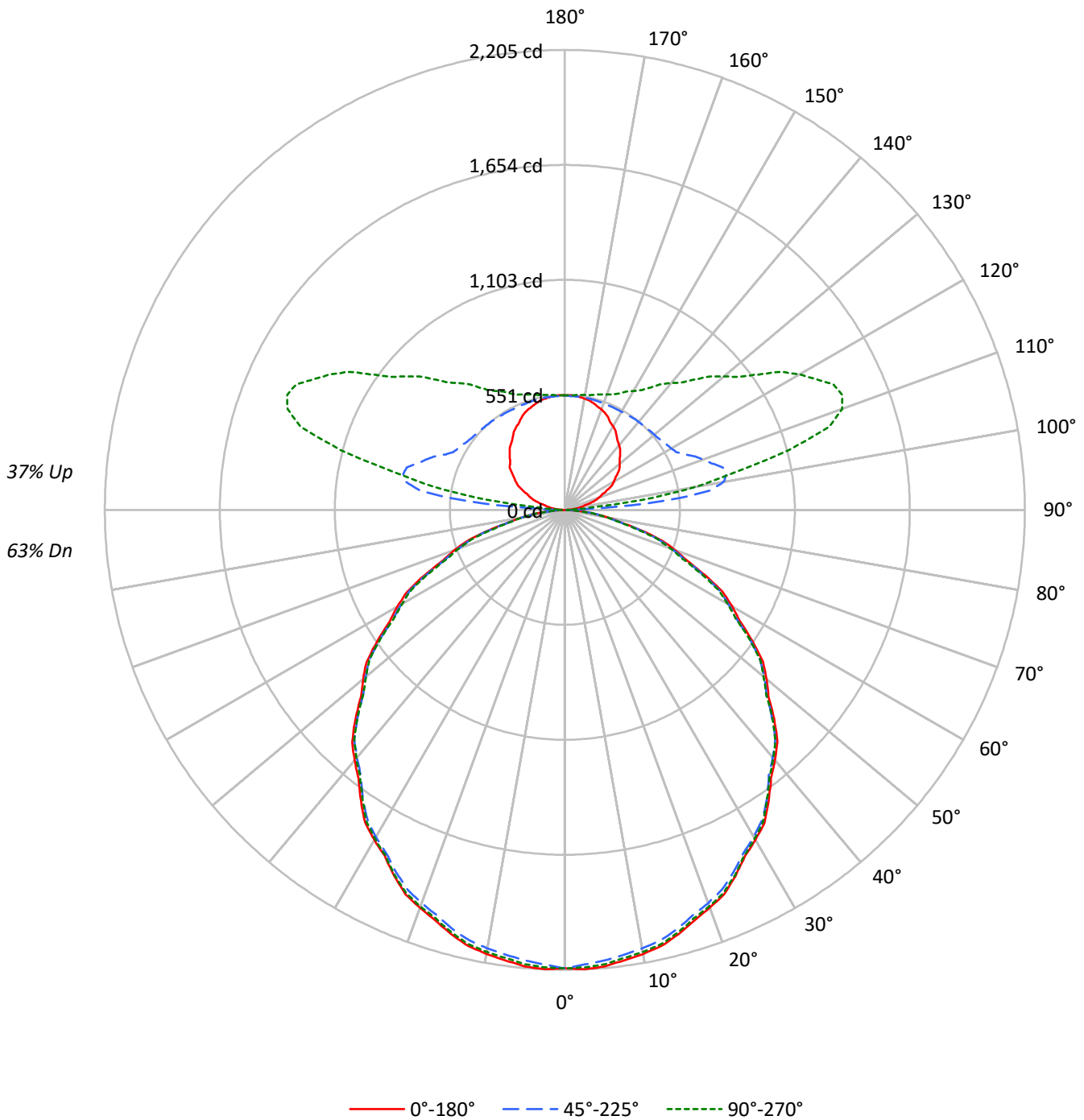
Lumens per Lamp: N/A
Luminaire Lumens: 9572.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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	79	79	79	68	68	68	63
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	59	57	53
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52	54	49	46	47	43	41	37
4	76	65	57	51	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	50	44	65	55	47	42	49	42	38	43	38	34	37	34	30	27
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24	21
8	55	43	35	29	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	28	24	45	34	27	23	31	25	21	27	23	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13520	13520	13520
5°	13564	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13287	13137	13240
25°	13136	12996	13104
30°	12975	12863	12931
35°	12790	12681	12690
40°	12580	12443	12482
45°	12343	12207	12228
50°	12074	11934	11901
55°	11766	11598	11572
60°	11384	11132	11073
65°	10793	10565	10424
70°	10053	9790	9661
75°	8940	8741	8482
80°	7283	7070	7028
85°	4354	4947	4947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	2.2
10°-20°	590.7	6.2
20°-30°	887.4	9.3
30°-40°	1058.9	11.1
40°-50°	1085.4	11.3
50°-60°	967.4	10.1
60°-70°	720.2	7.5
70°-80°	390.2	4.1
80°-90°	91.0	1.0
90°-100°	258.7	2.7
100°-110°	711.8	7.4
110°-120°	734.7	7.7
120°-130°	588.6	6.1
130°-140°	462.3	4.8
140°-150°	354.3	3.7
150°-160°	254.7	2.7
160°-170°	155.8	1.6
170°-180°	52.5	0.5
0°-30°	1685.5	17.6
0°-40°	2744.4	28.7
0°-60°	4797.2	50.1
0°-90°	5998.5	62.7
90°-120°	1705.2	17.8
90°-150°	3110.5	32.5
90°-180°	3574.0	37.3
0°-180°	9572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2197	2193	2169	2188	2187	208
15°	2106	2101	2081	2099	2098	594
25°	1936	1932	1915	1926	1931	891
35°	1703	1702	1689	1689	1690	1065
45°	1419	1416	1403	1401	1406	1093
55°	1097	1094	1082	1073	1079	980
65°	742	737	726	721	716	734
75°	376	376	368	360	357	400
85°	62	70	70	71	70	85
90°	1	5	8	10	10	4
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°	2198.1	2198.1	2198.1	2198.1	2198.1
2.5°	2204.9	2201.2	2181.7	2198.1	2195.3
5°	2196.9	2193.4	2169.1	2188.5	2187.3
7.5°	2178.4	2173.8	2151.7	2169.7	2167.6
10°	2161.8	2158.3	2135.3	2153.3	2152.2
12.5°	2141.6	2138.0	2114.9	2133.0	2132.8
15°	2106.2	2101.4	2080.8	2098.9	2097.8
17.5°	2063.8	2058.5	2038.0	2052.3	2054.7
20°	2030.0	2026.4	2007.0	2020.3	2022.8
22.5°	1995.1	1990.7	1970.2	1985.5	1987.9
25°	1935.6	1932.1	1915.0	1926.1	1930.8
27.5°	1870.3	1870.3	1854.5	1862.3	1865.2
30°	1826.8	1826.8	1811.1	1815.9	1820.7
32.5°	1780.2	1776.5	1761.7	1765.6	1770.4
35°	1703.3	1702.2	1688.8	1688.8	1690.0
37.5°	1623.8	1620.4	1605.8	1606.9	1612.6
40°	1566.7	1564.3	1549.7	1549.8	1554.5
42.5°	1508.6	1506.2	1493.6	1491.7	1493.6
45°	1419.0	1415.5	1403.3	1401.0	1405.7
47.5°	1323.8	1324.7	1310.2	1306.8	1309.5
50°	1261.8	1261.8	1247.2	1240.1	1243.7
52.5°	1197.0	1195.0	1180.4	1172.4	1180.7
55°	1097.2	1093.7	1081.5	1073.2	1079.1
57.5°	995.2	989.7	977.5	968.4	971.7
60°	925.4	917.2	904.9	897.7	900.1
62.5°	852.9	848.4	835.2	824.2	829.5
65°	741.6	736.8	725.9	720.9	716.2
67.5°	632.4	629.4	617.0	611.9	608.7
70°	559.0	553.0	544.4	538.3	537.2
72.5°	487.3	480.4	471.8	466.6	463.6
75°	376.2	376.2	367.8	360.4	356.9
77.5°	270.5	271.4	264.4	262.0	260.4
80°	205.6	205.6	199.6	197.2	198.4
82.5°	143.7	146.6	144.4	141.0	139.4
85°	61.7	69.9	70.1	71.4	70.1
87.5°	10.8	18.2	20.1	18.5	16.7
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.9	119.2	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	538.0	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	968.9	837.1
105°	127.3	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.8	1304.9	1328.6
110°	176.3	233.3	706.1	1332.4	1414.6

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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°	225.3	274.4	629.0	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.7
120°	271.9	315.2	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.5	353.8	570.7	965.4	1130.9
127.5°	331.9	373.3	564.0	900.6	1045.7
130°	343.1	385.4	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°	404.9	440.3	550.9	717.2	793.6
142.5°	416.2	448.9	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	543.8	625.1	657.1
152.5°	472.4	493.5	543.0	612.9	639.3
155°	490.1	506.2	542.7	597.9	615.0
157.5°	503.0	516.1	542.7	585.7	597.5
160°	512.3	522.6	542.7	579.0	588.2
162.5°	519.9	528.3	543.6	573.5	580.7
165°	529.8	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	544.9	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	552.1
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)