

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: P564109

Luminaire Tested: **SQ4-PR1-075U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564109
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-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

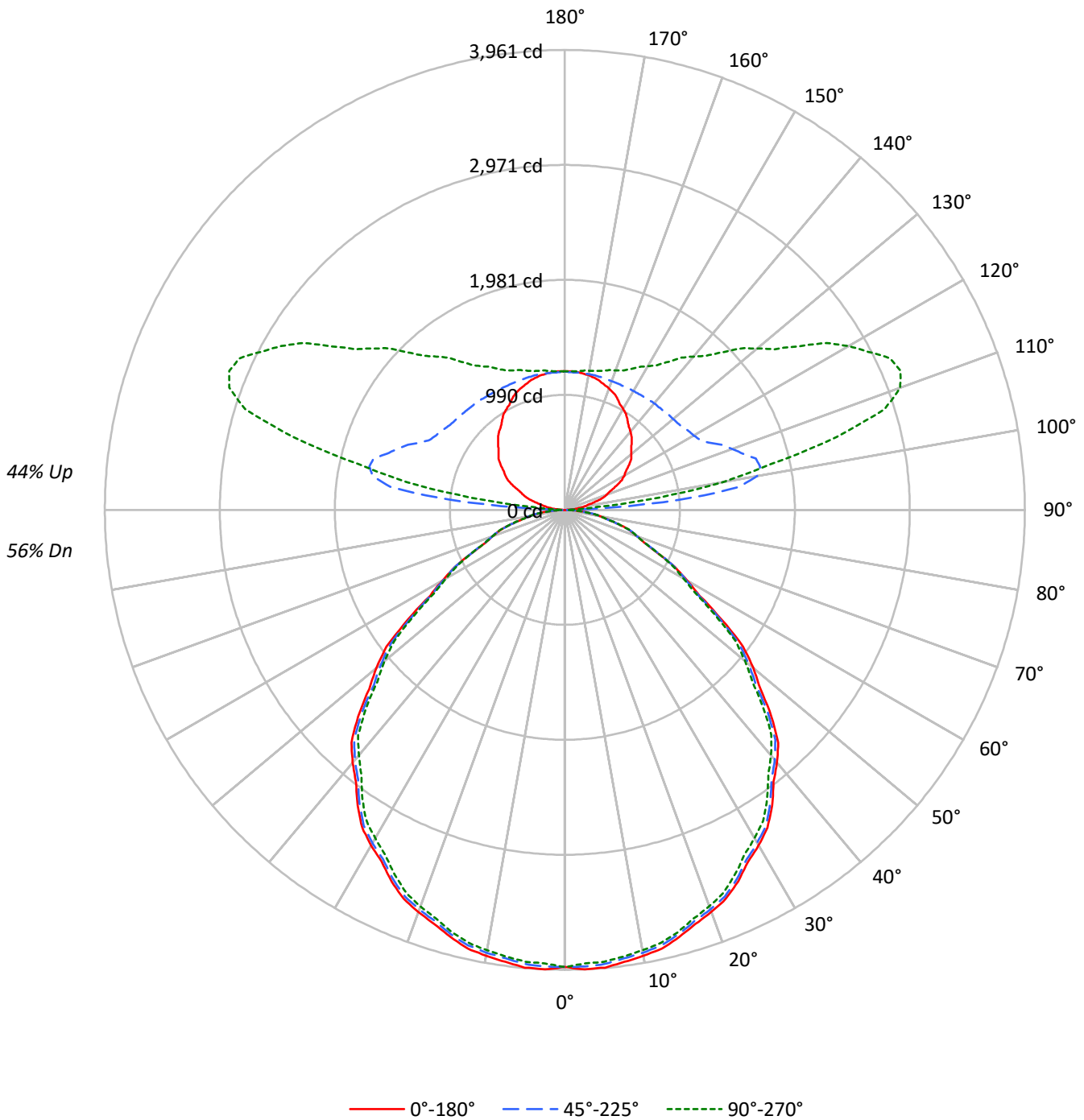
Lumens per Lamp: N/A
Luminaire Lumens: 17609.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 162.2
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°	12108	12108	12108
5°	12217	12123	12060
10°	12178	12093	12030
15°	12125	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11849	11765	11596
35°	11674	11572	11407
40°	11408	11286	11082
45°	10943	10751	10530
50°	10124	9880	9686
55°	8836	8636	8454
60°	7446	7383	7238
65°	6440	6465	6416
70°	5916	5945	5945
75°	5681	5681	5721
80°	5345	5405	5345
85°	4308	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.3	2.1
10°-20°	1065.2	6.0
20°-30°	1606.6	9.1
30°-40°	1914.3	10.9
40°-50°	1887.3	10.7
50°-60°	1442.4	8.2
60°-70°	892.6	5.1
70°-80°	507.0	2.9
80°-90°	157.3	0.9
90°-100°	562.1	3.2
100°-110°	1546.5	8.8
110°-120°	1596.3	9.1
120°-130°	1279.0	7.3
130°-140°	1004.5	5.7
140°-150°	769.8	4.4
150°-160°	553.5	3.1
160°-170°	338.4	1.9
170°-180°	114.1	0.6
0°-30°	3044.1	17.3
0°-40°	4958.4	28.2
0°-60°	8288.1	47.1
0°-90°	9844.9	55.9
90°-120°	3704.9	21.0
90°-150°	6758.2	38.4
90°-180°	7764.0	44.1
0°-180°	17609.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3937	3937	3937	3937	3937	
5°	3957	3914	3927	3913	3906	375
15°	3808	3768	3784	3771	3764	1075
25°	3530	3487	3506	3469	3466	1625
35°	3110	3073	3082	3042	3038	1941
45°	2516	2483	2472	2428	2421	1928
55°	1648	1622	1611	1583	1577	1477
65°	885	878	888	882	882	897
75°	478	478	478	482	482	505
85°	122	129	136	136	136	142
90°	2	10	18	23	23	10
95°	84	307	994	425	271	88
105°	276	425	1704	2595	2422	291
115°	489	596	1367	2722	3089	483
125°	674	769	1240	2098	2457	602
135°	814	903	1204	1696	1920	628
145°	941	1005	1187	1445	1557	590
155°	1065	1100	1179	1299	1336	489
165°	1151	1166	1184	1233	1240	324
175°	1192	1194	1187	1202	1199	113
180°	1192	1192	1192	1192	1192	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3936.9	3936.9	3936.9	3936.9	3936.9
2.5°	3961.3	3926.9	3936.9	3928.4	3909.8
5°	3957.3	3914.2	3926.8	3913.0	3906.4
7.5°	3926.8	3884.3	3896.9	3883.3	3879.3
10°	3899.6	3859.8	3872.5	3858.8	3852.2
12.5°	3869.8	3827.4	3842.7	3826.2	3819.6
15°	3808.1	3768.3	3784.3	3770.6	3764.0
17.5°	3740.3	3697.8	3713.8	3698.0	3689.4
20°	3686.0	3646.2	3662.3	3638.5	3635.1
22.5°	3626.3	3586.5	3602.6	3570.7	3570.0
25°	3530.0	3486.9	3506.3	3468.9	3465.6
27.5°	3415.4	3375.6	3391.7	3353.6	3349.6
30°	3336.7	3296.9	3313.0	3272.2	3265.5
32.5°	3247.2	3210.1	3223.5	3182.7	3178.7
35°	3109.5	3073.1	3082.4	3041.6	3038.3
37.5°	2952.9	2919.7	2925.1	2880.2	2876.9
40°	2841.6	2808.5	2811.1	2763.6	2760.3
42.5°	2719.6	2686.4	2683.6	2636.1	2632.8
45°	2516.1	2483.0	2472.0	2427.8	2421.2
47.5°	2284.2	2251.0	2230.6	2194.5	2189.9
50°	2116.0	2082.8	2065.1	2034.4	2024.4
52.5°	1934.2	1901.1	1886.1	1858.0	1848.1
55°	1648.0	1621.5	1610.7	1583.4	1576.8
57.5°	1376.1	1358.2	1355.0	1328.5	1325.9
60°	1210.6	1200.6	1200.4	1176.7	1176.7
62.5°	1069.5	1062.2	1067.5	1051.8	1049.2
65°	885.0	878.4	888.4	881.7	881.7
67.5°	739.2	739.2	745.3	742.6	742.6
70°	657.9	657.9	661.2	661.2	661.2
72.5°	584.6	582.0	590.7	590.6	588.0
75°	478.1	478.1	478.1	481.5	481.5
77.5°	372.3	373.0	375.7	375.0	372.3
80°	301.8	305.1	305.2	301.8	301.8
82.5°	231.3	234.6	234.7	233.9	231.3
85°	122.1	128.7	135.6	135.6	135.6
87.5°	35.8	47.9	57.8	58.8	56.1
90°	2.5	10.0	17.8	22.8	22.8
92.5°	35.0	149.5	259.2	99.5	81.7
95°	83.7	306.8	994.0	425.1	271.3
97.5°	136.4	340.2	1516.9	1168.8	824.6
100°	175.0	360.9	1681.2	1696.9	1384.5
102.5°	211.5	385.5	1723.8	2105.3	1818.7
105°	276.4	425.2	1704.0	2595.2	2421.7
107.5°	338.3	474.1	1607.2	2835.2	2886.7
110°	382.9	506.9	1534.1	2894.8	3073.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	423.5	543.5	1461.1	2856.4	3128.1
115°	489.4	596.0	1366.8	2721.6	3088.6
117.5°	552.3	650.5	1306.9	2532.5	2947.6
120°	590.8	685.1	1280.6	2390.8	2819.8
122.5°	625.3	719.5	1262.3	2266.6	2673.7
125°	674.5	768.7	1240.0	2097.7	2457.2
127.5°	721.2	810.9	1225.3	1956.7	2272.1
130°	745.5	837.3	1217.2	1872.9	2160.5
132.5°	773.9	865.7	1211.1	1799.2	2059.1
135°	814.0	903.2	1204.5	1696.4	1919.6
137.5°	851.5	934.3	1198.9	1613.4	1797.4
140°	879.9	956.8	1196.9	1558.2	1724.3
142.5°	904.3	975.2	1192.8	1509.0	1651.3
145°	940.8	1005.2	1186.7	1445.4	1557.0
147.5°	979.8	1035.4	1183.7	1389.1	1478.4
150°	1004.2	1053.8	1181.7	1358.2	1427.6
152.5°	1026.5	1072.1	1179.6	1331.6	1389.1
155°	1065.0	1099.7	1179.1	1299.2	1336.4
157.5°	1092.9	1121.2	1179.1	1272.5	1298.3
160°	1113.2	1135.5	1179.1	1258.2	1278.0
162.5°	1129.4	1147.8	1181.2	1245.9	1261.8
165°	1151.2	1166.1	1184.2	1232.6	1240.0
167.5°	1166.5	1177.9	1186.7	1221.3	1223.3
170°	1176.6	1184.0	1186.7	1217.2	1217.2
172.5°	1184.7	1188.2	1186.7	1211.0	1209.1
175°	1191.8	1194.3	1186.7	1201.9	1199.4
177.5°	1193.8	1193.8	1185.7	1197.8	1193.8
180°	1191.8	1191.8	1191.8	1191.8	1191.8

(END OF REPORT)