

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: P565135

Luminaire Tested: **SQ4-PW1-150U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565135
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

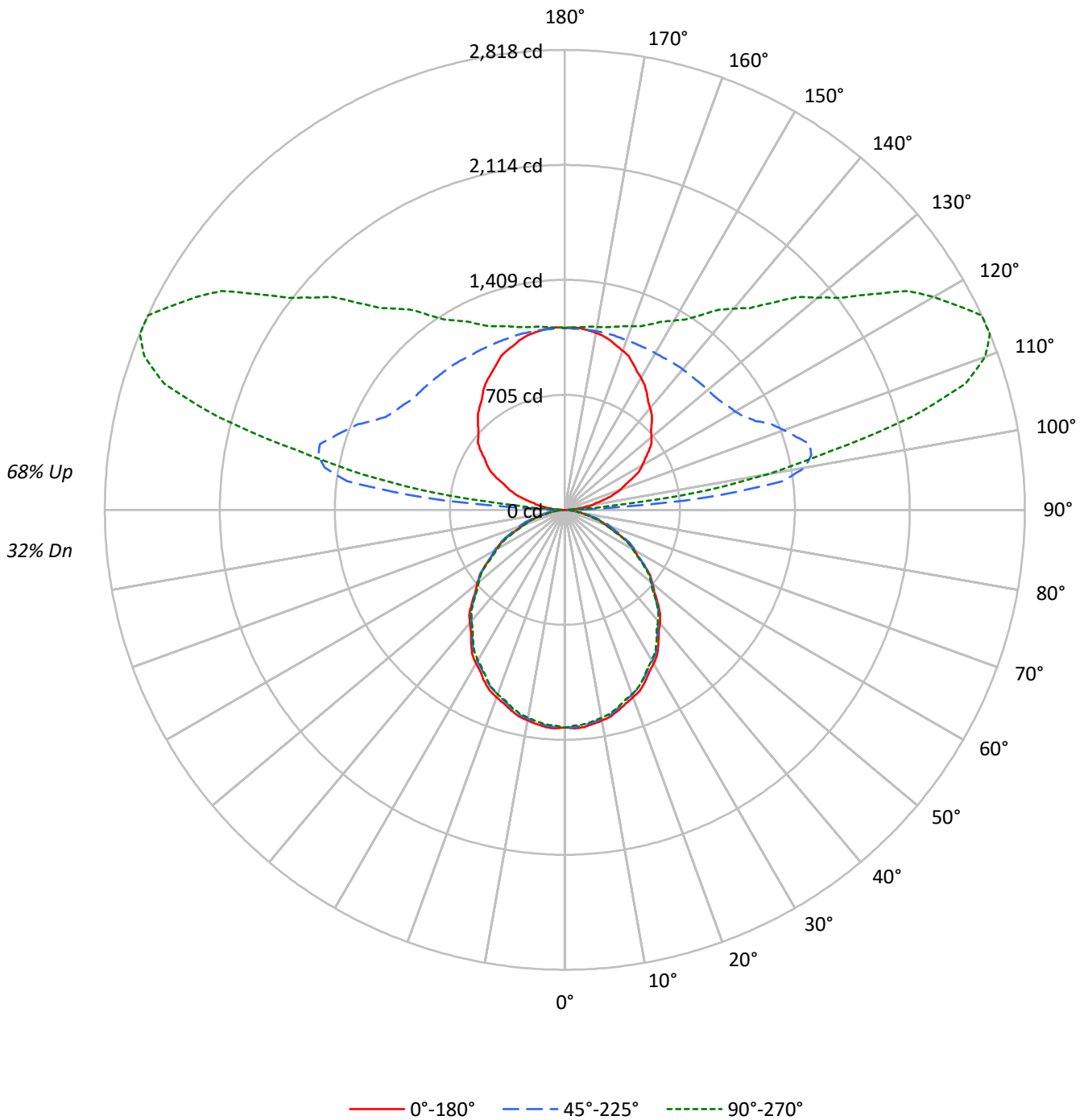
Lumens per Lamp: N/A
Luminaire Lumens: 10584.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7158	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6285
60°	5997	6113	5895
65°	5487	5760	5352
70°	4838	5302	4710
75°	4130	4746	4019
80°	3202	3995	3245
85°	2075	3070	2738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.2
10°-20°	354.4	3.3
20°-30°	525.7	5.0
30°-40°	615.2	5.8
40°-50°	612.4	5.8
50°-60°	528.8	5.0
60°-70°	380.7	3.6
70°-80°	199.6	1.9
80°-90°	51.8	0.5
90°-100°	518.3	4.9
100°-110°	1401.4	13.2
110°-120°	1473.3	13.9
120°-130°	1196.7	11.3
130°-140°	938.7	8.9
140°-150°	720.5	6.8
150°-160°	518.2	4.9
160°-170°	316.5	3.0
170°-180°	106.7	1.0
0°-30°	1005.7	9.5
0°-40°	1620.9	15.3
0°-60°	2762.2	26.1
0°-90°	3394.3	32.1
90°-120°	3393.0	32.1
90°-150°	6249.0	59.0
90°-180°	7190.0	67.9
0°-180°	10584.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1337	1322	1326	1323	1320	127
15°	1272	1256	1258	1256	1253	359
25°	1163	1143	1142	1135	1138	535
35°	1000	986	986	976	980	625
45°	803	796	793	790	789	620
55°	596	594	596	587	586	531
65°	377	388	396	380	368	374
75°	174	190	200	186	169	186
85°	29	39	44	41	39	39
90°	2	7	16	17	16	6
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.2	1333.2	1333.2	1333.2	1333.2
2.5°	1340.7	1329.7	1333.2	1330.2	1323.8
5°	1336.7	1321.8	1326.1	1322.6	1320.3
7.5°	1323.1	1309.3	1312.5	1308.7	1307.3
10°	1310.9	1297.1	1300.3	1295.5	1293.2
12.5°	1296.8	1282.1	1285.3	1280.5	1279.1
15°	1272.1	1256.0	1258.0	1255.6	1253.3
17.5°	1243.4	1227.1	1227.5	1223.7	1223.2
20°	1222.8	1205.5	1204.0	1199.3	1201.6
22.5°	1200.2	1182.1	1180.5	1174.0	1177.2
25°	1162.9	1143.3	1141.7	1134.8	1138.2
27.5°	1119.6	1100.3	1100.4	1090.6	1094.3
30°	1087.7	1069.3	1071.2	1059.6	1064.2
32.5°	1053.9	1037.3	1038.4	1026.7	1031.3
35°	999.6	985.8	985.5	976.2	979.6
37.5°	944.2	932.0	930.1	924.7	925.6
40°	905.6	895.3	891.5	888.0	888.0
42.5°	865.2	855.8	852.1	849.5	848.5
45°	803.4	796.5	792.9	790.5	789.3
47.5°	742.4	735.9	732.7	731.1	729.9
50°	700.1	695.5	694.2	690.6	689.5
52.5°	657.8	655.0	653.8	649.3	648.1
55°	595.5	594.4	595.5	587.3	586.1
57.5°	530.7	532.5	536.3	525.2	522.5
60°	487.5	492.1	496.9	483.8	479.2
62.5°	443.3	450.6	457.4	442.4	436.0
65°	377.0	388.5	395.8	380.3	367.7
67.5°	313.2	327.4	336.2	319.4	305.2
70°	269.0	285.1	294.8	278.0	261.9
72.5°	230.5	248.4	256.3	240.4	224.4
75°	173.8	189.9	199.7	186.4	169.1
77.5°	123.3	138.5	146.6	135.0	120.7
80°	90.4	106.5	112.8	103.1	91.6
82.5°	64.1	77.5	81.8	75.9	68.1
85°	29.4	38.6	43.5	41.1	38.8
87.5°	8.0	15.4	21.0	21.2	21.9
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)