

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: P563806

Luminaire Tested: **SQ4-PP3-150U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563806
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

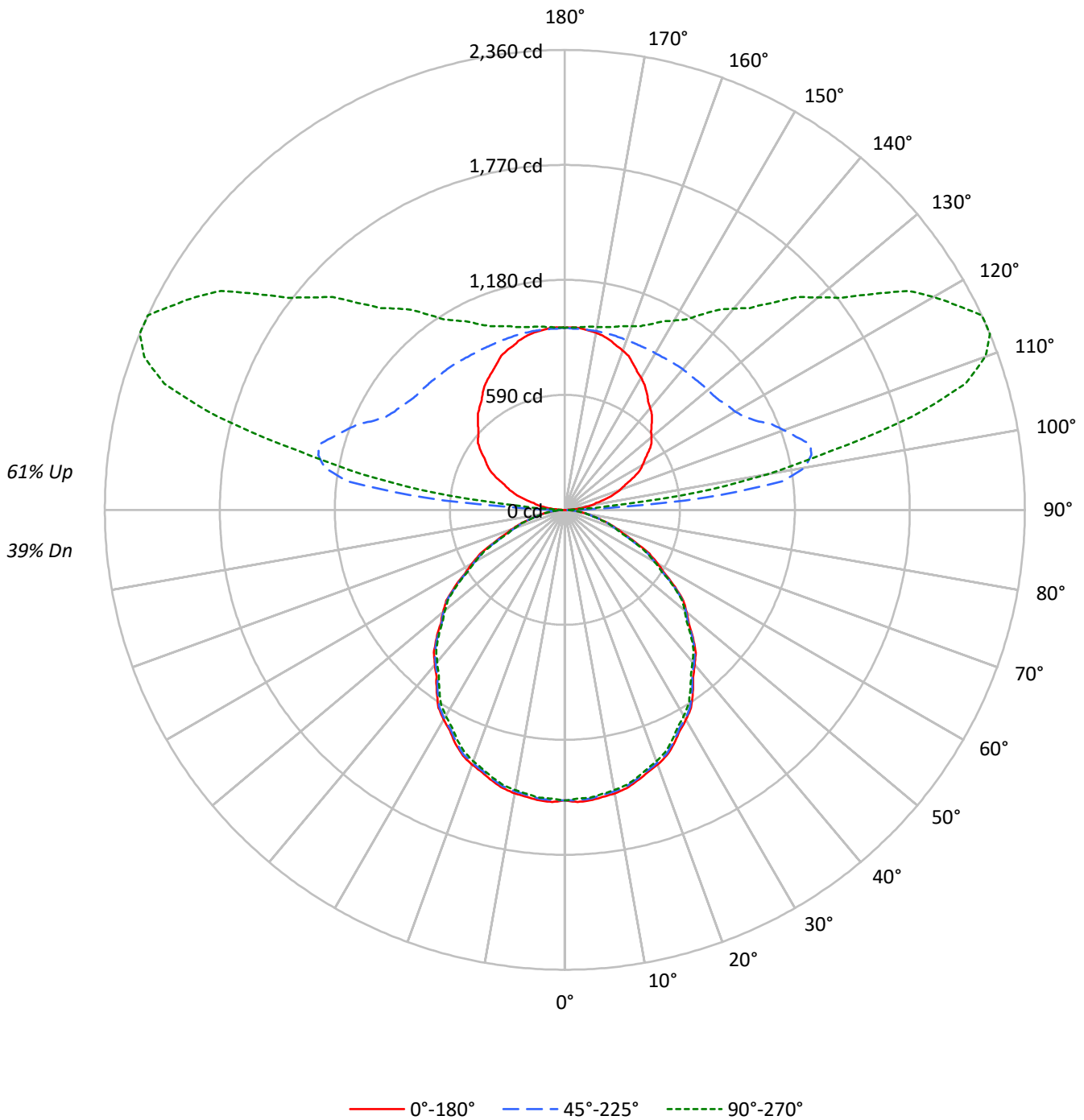
Lumens per Lamp: N/A
Luminaire Lumens: 9843.5 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13863	13777	13729
10°	13839	13741	13680
15°	13747	13672	13598
20°	13656	13579	13477
25°	13494	13401	13268
30°	13244	13174	13007
35°	12897	12810	12647
40°	12485	12406	12264
45°	12144	12059	11940
50°	11708	11633	11520
55°	11102	10956	10871
60°	10106	9817	9769
65°	8905	8534	8505
70°	7688	7370	7370
75°	6616	6523	6431
80°	5834	5903	5765
85°	4563	4986	4986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.4
10°-20°	402.7	4.1
20°-30°	603.2	6.1
30°-40°	707.5	7.2
40°-50°	709.7	7.2
50°-60°	605.5	6.2
60°-70°	394.9	4.0
70°-80°	198.1	2.0
80°-90°	56.8	0.6
90°-100°	434.2	4.4
100°-110°	1174.0	11.9
110°-120°	1234.3	12.5
120°-130°	1002.6	10.2
130°-140°	786.5	8.0
140°-150°	603.6	6.1
150°-160°	434.1	4.4
160°-170°	265.2	2.7
170°-180°	89.4	0.9
0°-30°	1147.0	11.7
0°-40°	1854.5	18.8
0°-60°	3169.7	32.2
0°-90°	3819.5	38.8
90°-120°	2842.6	28.9
90°-150°	5235.3	53.2
90°-180°	6024.0	61.2
0°-180°	9843.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1497	1483	1488	1482	1482	142
15°	1439	1425	1431	1426	1424	406
25°	1326	1310	1316	1305	1303	610
35°	1145	1134	1137	1124	1123	715
45°	931	924	924	915	915	717
55°	690	688	681	677	676	613
65°	408	400	391	388	390	407
75°	186	186	183	182	180	201
85°	43	47	47	47	47	51
90°	2	6	13	14	13	6
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491.5	1491.5	1491.5	1491.5	1491.5
2.5°	1500.9	1488.7	1491.5	1489.3	1483.2
5°	1496.8	1482.7	1487.6	1482.4	1482.4
7.5°	1486.6	1471.2	1476.1	1470.9	1470.6
10°	1477.2	1461.8	1466.7	1461.4	1460.2
12.5°	1463.6	1448.2	1454.1	1447.9	1447.6
15°	1439.2	1425.2	1431.4	1426.1	1423.6
17.5°	1411.8	1396.5	1404.0	1396.6	1395.6
20°	1390.9	1375.5	1383.0	1372.6	1372.6
22.5°	1365.8	1350.4	1359.0	1345.4	1345.4
25°	1325.5	1310.2	1316.4	1304.6	1303.3
27.5°	1277.7	1262.6	1269.0	1255.7	1255.5
30°	1243.2	1229.1	1236.6	1222.2	1220.9
32.5°	1205.5	1192.5	1197.9	1183.5	1182.2
35°	1145.1	1133.6	1137.3	1124.2	1122.9
37.5°	1081.6	1069.8	1074.0	1062.8	1062.2
40°	1036.6	1029.0	1030.1	1020.9	1018.3
42.5°	994.8	986.1	987.2	978.0	977.5
45°	930.7	924.3	924.2	915.1	915.1
47.5°	862.8	857.9	856.5	848.9	848.6
50°	815.7	811.9	810.5	803.9	802.6
52.5°	766.6	764.8	760.3	754.8	754.5
55°	690.2	687.7	681.1	677.1	675.8
57.5°	607.3	602.2	594.8	589.1	590.1
60°	547.7	542.6	532.0	529.4	529.4
62.5°	490.2	484.1	473.5	469.9	471.9
65°	407.9	400.2	390.9	388.3	389.6
67.5°	333.1	326.2	316.1	316.1	315.0
70°	285.0	281.1	273.2	273.2	273.2
72.5°	242.1	240.3	234.5	234.5	233.5
75°	185.6	185.6	183.0	181.7	180.4
77.5°	139.1	139.6	138.3	136.9	134.6
80°	109.8	112.4	111.1	109.8	108.5
82.5°	82.6	85.2	85.0	82.6	82.4
85°	43.1	47.0	47.1	47.1	47.1
87.5°	11.9	16.8	19.3	19.6	20.4
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)