

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: P561845

Luminaire Tested: **SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561845
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-050U-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

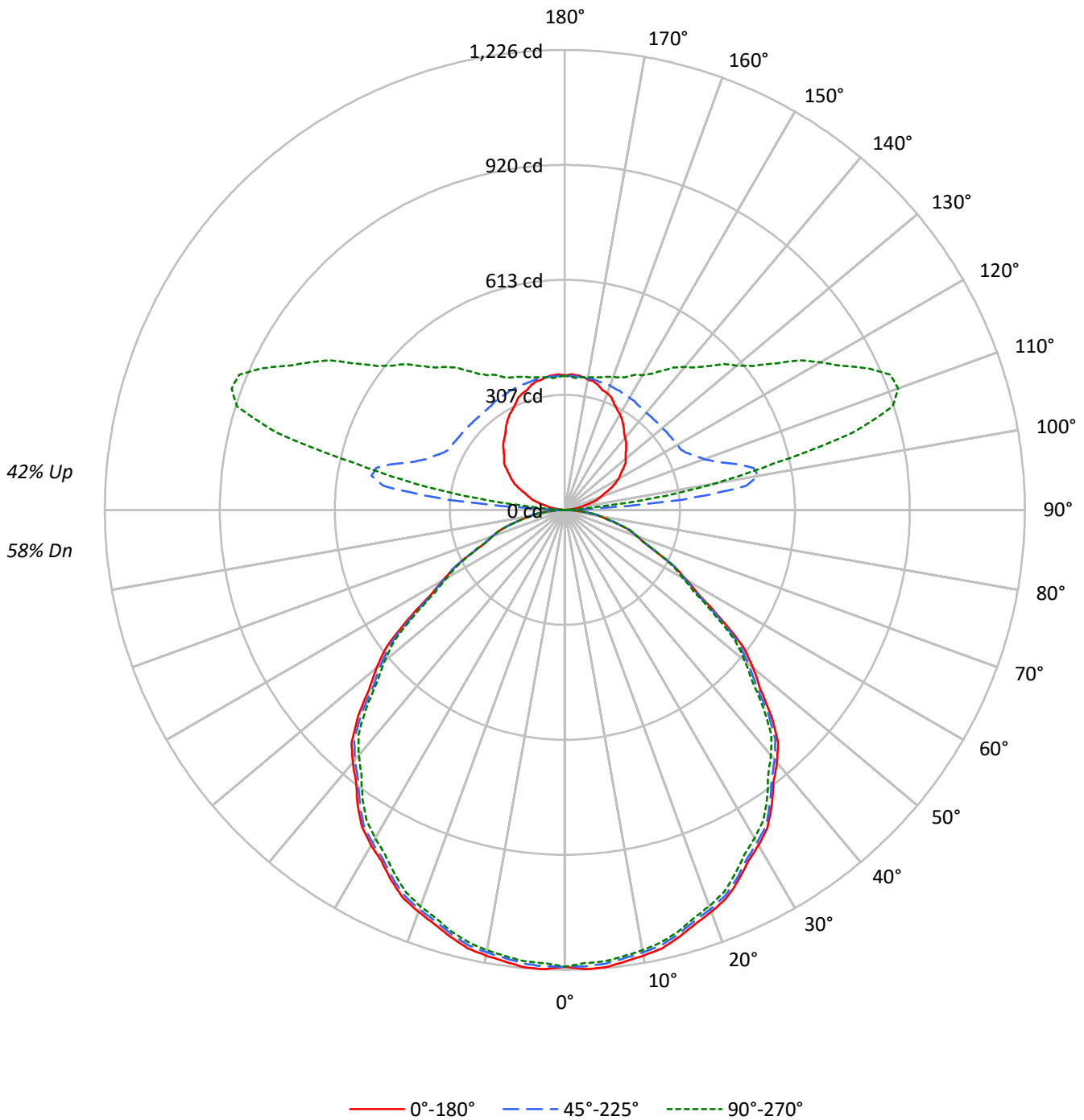
Lumens per Lamp: N/A
Luminaire Lumens: 5267.6 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 47.7
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	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	96	92	88	93	89	86	83	77	75	73	67	65	63	56	55	54	49
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	50	48	46	42
3	83	74	67	61	78	69	63	58	60	56	52	52	49	45	45	42	40	36
4	76	66	58	52	71	62	55	49	54	48	44	47	43	39	40	37	34	31
5	70	59	51	45	65	55	48	43	48	43	38	42	38	34	36	33	30	27
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	29	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24	21
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21	19
9	52	40	32	27	48	38	31	26	33	28	24	29	25	21	26	22	19	17
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11238	11238	11238
5°	11339	11252	11193
10°	11303	11224	11165
15°	11253	11183	11123
20°	11197	11124	11042
25°	11118	11043	10915
30°	10998	10920	10763
35°	10835	10741	10587
40°	10589	10475	10286
45°	10156	9979	9774
50°	9396	9170	8990
55°	8202	8015	7846
60°	6910	6853	6717
65°	5977	6001	5956
70°	5490	5519	5519
75°	5272	5272	5311
80°	4962	5016	4962
85°	4001	4446	4446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	2.2
10°-20°	329.5	6.3
20°-30°	497.1	9.4
30°-40°	592.2	11.2
40°-50°	583.9	11.1
50°-60°	446.2	8.5
60°-70°	276.2	5.2
70°-80°	156.8	3.0
80°-90°	47.7	0.9
90°-100°	163.0	3.1
100°-110°	463.9	8.8
110°-120°	444.5	8.4
120°-130°	351.8	6.7
130°-140°	282.4	5.4
140°-150°	221.1	4.2
150°-160°	161.8	3.1
160°-170°	100.2	1.9
170°-180°	34.0	0.6
0°-30°	941.8	17.9
0°-40°	1534.0	29.1
0°-60°	2564.2	48.7
0°-90°	3044.9	57.8
90°-120°	1071.5	20.3
90°-150°	1926.7	36.6
90°-180°	2223.0	42.2
0°-180°	5267.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1224	1211	1215	1211	1209	116
15°	1178	1166	1171	1167	1164	332
25°	1092	1079	1085	1073	1072	503
35°	962	951	954	941	940	600
45°	778	768	765	751	749	596
55°	510	502	498	490	488	457
65°	274	272	275	273	273	277
75°	148	148	148	149	149	156
85°	38	40	42	42	42	44
90°	0	0	0	0	0	2
95°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	

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CATALOG NUMBER: SQ4-PR1-050U-075D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.0	1218.0	1218.0	1218.0	1218.0
2.5°	1225.6	1214.9	1218.0	1215.4	1209.6
5°	1224.3	1211.0	1214.9	1210.6	1208.6
7.5°	1214.9	1201.7	1205.6	1201.4	1200.2
10°	1206.5	1194.2	1198.1	1193.8	1191.8
12.5°	1197.2	1184.1	1188.9	1183.8	1181.7
15°	1178.1	1165.8	1170.8	1166.6	1164.5
17.5°	1157.2	1144.0	1149.0	1144.1	1141.4
20°	1140.4	1128.1	1133.0	1125.7	1124.6
22.5°	1121.9	1109.6	1114.6	1104.7	1104.5
25°	1092.1	1078.8	1084.8	1073.2	1072.2
27.5°	1056.7	1044.4	1049.3	1037.5	1036.3
30°	1032.3	1020.0	1025.0	1012.3	1010.3
32.5°	1004.6	993.1	997.3	984.7	983.4
35°	962.0	950.7	953.6	941.0	940.0
37.5°	913.6	903.3	905.0	891.1	890.1
40°	879.2	868.9	869.7	855.0	854.0
42.5°	841.4	831.1	830.3	815.6	814.5
45°	778.4	768.2	764.8	751.1	749.1
47.5°	706.7	696.4	690.1	679.0	677.5
50°	654.6	644.4	638.9	629.4	626.3
52.5°	598.4	588.2	583.5	574.8	571.8
55°	509.9	501.7	498.3	489.9	487.8
57.5°	425.7	420.2	419.2	411.0	410.2
60°	374.5	371.5	371.4	364.0	364.0
62.5°	330.9	328.6	330.3	325.4	324.6
65°	273.8	271.8	274.9	272.8	272.8
67.5°	228.7	228.7	230.6	229.8	229.8
70°	203.5	203.5	204.6	204.6	204.6
72.5°	180.9	180.0	182.8	182.7	181.9
75°	147.9	147.9	147.9	149.0	149.0
77.5°	115.2	115.4	116.2	116.0	115.2
80°	93.4	94.4	94.4	93.4	93.4
82.5°	71.5	72.6	72.6	72.4	71.5
85°	37.8	39.8	42.0	42.0	42.0
87.5°	10.9	14.2	16.8	16.8	15.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>114.7</i>	144.4	376.2	822.4	940.0
115°	<i>134.0</i>	161.9	358.5	759.5	891.8
117.5°	<i>151.0</i>	177.2	348.0	690.7	830.9
120°	<i>164.6</i>	186.6	346.9	651.3	785.7
122.5°	<i>175.5</i>	197.5	344.2	616.8	741.6
125°	<i>189.1</i>	209.7	342.2	567.8	678.9
127.5°	<i>203.9</i>	223.2	341.1	538.5	630.1
130°	<i>211.6</i>	230.9	339.5	518.1	598.0
132.5°	<i>219.7</i>	238.5	339.5	502.2	575.6
135°	<i>231.3</i>	250.6	338.1	479.6	542.2
137.5°	<i>242.2</i>	260.9	338.0	460.5	514.6
140°	<i>250.3</i>	269.6	337.4	444.7	496.6
142.5°	<i>259.6</i>	275.7	339.0	432.1	478.6
145°	<i>272.8</i>	286.8	340.8	415.1	452.4
147.5°	<i>284.1</i>	297.6	343.8	398.0	430.2
150°	<i>293.9</i>	303.2	344.9	392.3	415.0
152.5°	<i>301.5</i>	311.3	346.0	384.7	405.7
155°	<i>311.6</i>	318.9	349.0	375.2	390.5
157.5°	<i>324.1</i>	328.5	349.7	370.9	381.8
160°	<i>330.6</i>	333.9	352.4	367.6	376.9
162.5°	<i>334.4</i>	338.3	352.9	364.8	372.0
165°	<i>344.2</i>	345.5	353.1	360.7	366.0
167.5°	<i>350.9</i>	349.7	356.2	359.6	361.8
170°	<i>353.1</i>	352.4	355.1	355.8	358.5
172.5°	<i>358.0</i>	355.7	356.7	354.7	356.9
175°	<i>360.5</i>	358.5	357.1	355.0	352.4
177.5°	<i>361.6</i>	358.4	356.7	354.6	355.1
180°	<i>357.8</i>	357.8	357.8	357.8	357.8

(END OF REPORT)