

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: P562158

Luminaire Tested: **SQ4-PW1-025U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562158
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-025U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

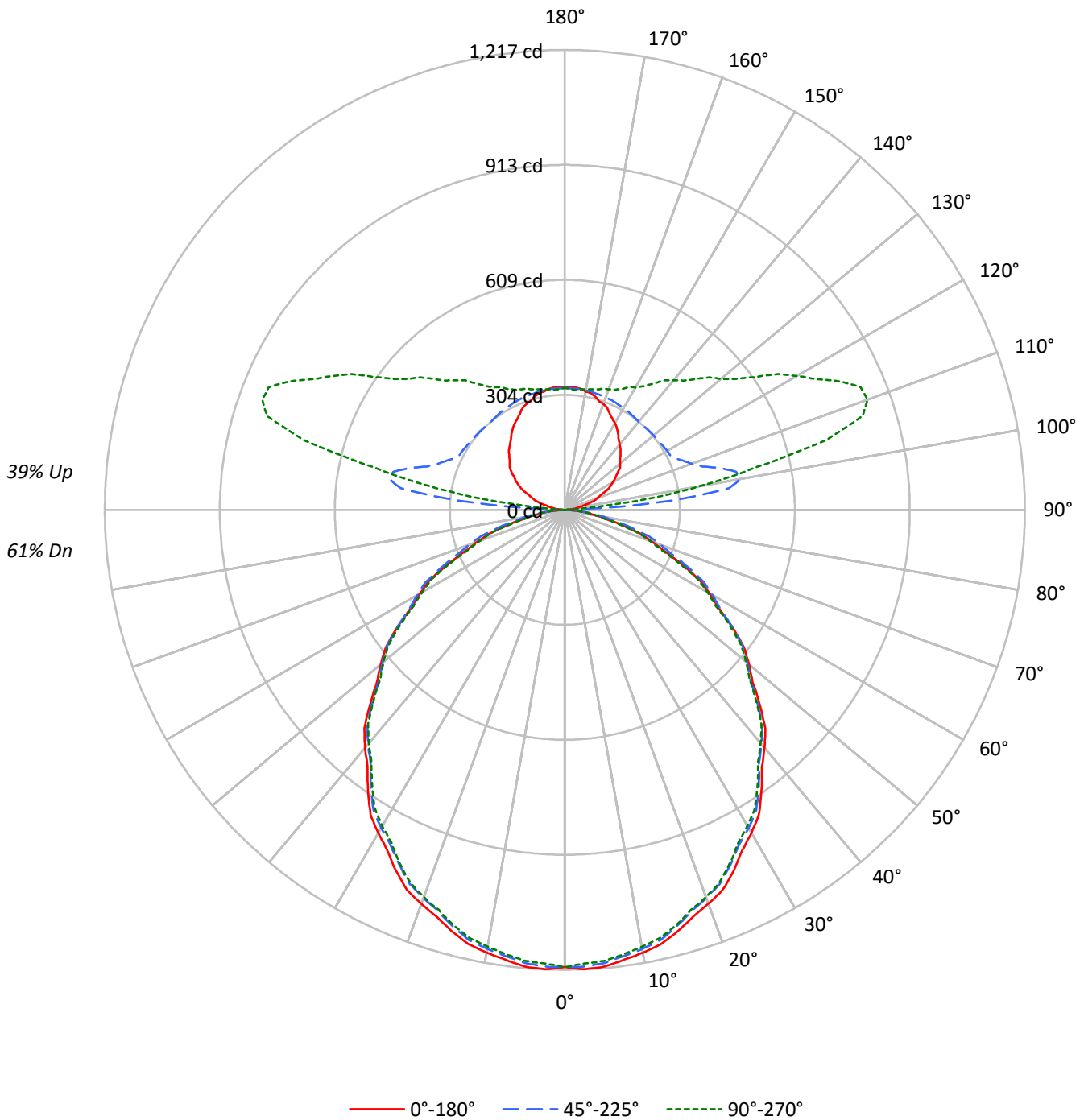
Lumens per Lamp: N/A
Luminaire Lumens: 5082.4 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.9
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	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	86	83	79	76	74	68	66	65	58	57	56	51
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	83	74	66	61	78	69	63	57	61	56	52	53	49	46	46	43	40	37
4	76	65	57	51	71	62	54	49	54	48	44	47	43	39	41	38	35	31
5	70	58	50	44	65	55	48	42	49	43	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	37	44	38	33	38	34	30	33	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	28	23	30	25	21	26	22	19	17
10	48	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°	11163	11163	11163
5°	11235	11147	11097
10°	11146	11056	10996
15°	11027	10905	10865
20°	10895	10728	10708
25°	10744	10549	10516
30°	10516	10357	10289
35°	10218	10074	10014
40°	9899	9745	9706
45°	9514	9389	9347
50°	9120	9043	8982
55°	8694	8694	8557
60°	8163	8320	8025
65°	7471	7844	7285
70°	6585	7219	6412
75°	5625	6459	5472
80°	4362	5435	4421
85°	2826	4171	3726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	2.2
10°-20°	321.7	6.3
20°-30°	477.2	9.4
30°-40°	558.3	11.0
40°-50°	555.8	10.9
50°-60°	480.0	9.4
60°-70°	345.5	6.8
70°-80°	181.2	3.6
80°-90°	44.9	0.9
90°-100°	147.0	2.9
100°-110°	418.3	8.2
110°-120°	400.8	7.9
120°-130°	317.2	6.2
130°-140°	254.6	5.0
140°-150°	199.3	3.9
150°-160°	145.8	2.9
160°-170°	90.3	1.8
170°-180°	30.7	0.6
0°-30°	912.8	18.0
0°-40°	1471.1	28.9
0°-60°	2506.9	49.3
0°-90°	3078.4	60.6
90°-120°	966.1	19.0
90°-150°	1737.2	34.2
90°-180°	2004.0	39.4
0°-180°	5082.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1213	1200	1204	1200	1198	115
15°	1154	1140	1142	1140	1138	325
25°	1055	1038	1036	1030	1033	485
35°	907	895	894	886	889	567
45°	729	723	720	717	716	563
55°	540	539	540	533	532	482
65°	342	353	359	345	334	339
75°	158	172	181	169	154	169
85°	27	35	39	37	35	35
90°	0	0	0	0	0	2
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1209.9	1209.9	1209.9	1209.9	1209.9
2.5°	1216.8	1206.8	1209.9	1207.3	1201.4
5°	1213.1	1199.6	1203.6	1200.3	1198.2
7.5°	1200.8	1188.3	1191.2	1187.7	1186.5
10°	1189.7	1177.2	1180.1	1175.8	1173.7
12.5°	1176.9	1163.6	1166.5	1162.2	1160.9
15°	1154.5	1139.9	1141.7	1139.5	1137.5
17.5°	1128.5	1113.7	1114.0	1110.6	1110.2
20°	1109.7	1094.1	1092.7	1088.5	1090.6
22.5°	1089.3	1072.8	1071.4	1065.5	1068.4
25°	1055.4	1037.7	1036.2	1029.9	1033.0
27.5°	1016.1	998.6	998.7	989.8	993.1
30°	987.1	970.5	972.2	961.7	965.8
32.5°	956.4	941.4	942.4	931.8	936.0
35°	907.2	894.7	894.4	885.9	889.1
37.5°	856.9	845.8	844.1	839.2	840.0
40°	821.9	812.5	809.1	805.9	805.9
42.5°	785.2	776.7	773.3	770.9	770.1
45°	729.2	722.9	719.6	717.4	716.4
47.5°	673.7	667.9	665.0	663.5	662.4
50°	635.4	631.2	630.0	626.8	625.8
52.5°	597.0	594.5	593.4	589.3	588.2
55°	540.5	539.4	540.5	533.0	532.0
57.5°	481.6	483.3	486.8	476.7	474.2
60°	442.4	446.6	450.9	439.1	434.9
62.5°	402.3	409.0	415.1	401.5	395.7
65°	342.2	352.6	359.3	345.1	333.7
67.5°	284.2	297.1	305.1	289.9	277.0
70°	244.1	258.7	267.6	252.3	237.7
72.5°	209.2	225.4	232.6	218.2	203.6
75°	157.8	172.4	181.2	169.1	153.5
77.5°	111.9	125.7	133.0	122.5	109.6
80°	82.1	96.7	102.3	93.6	83.2
82.5°	58.2	70.3	74.2	68.9	61.8
85°	26.7	35.0	39.4	37.3	35.2
87.5°	6.8	12.7	16.2	16.2	17.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)