

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: P523740

Luminaire Tested: **SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523740
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 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: 6493.2 lumens
Efficiency: N/A
Efficacy: 116.8 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: General Diffuse

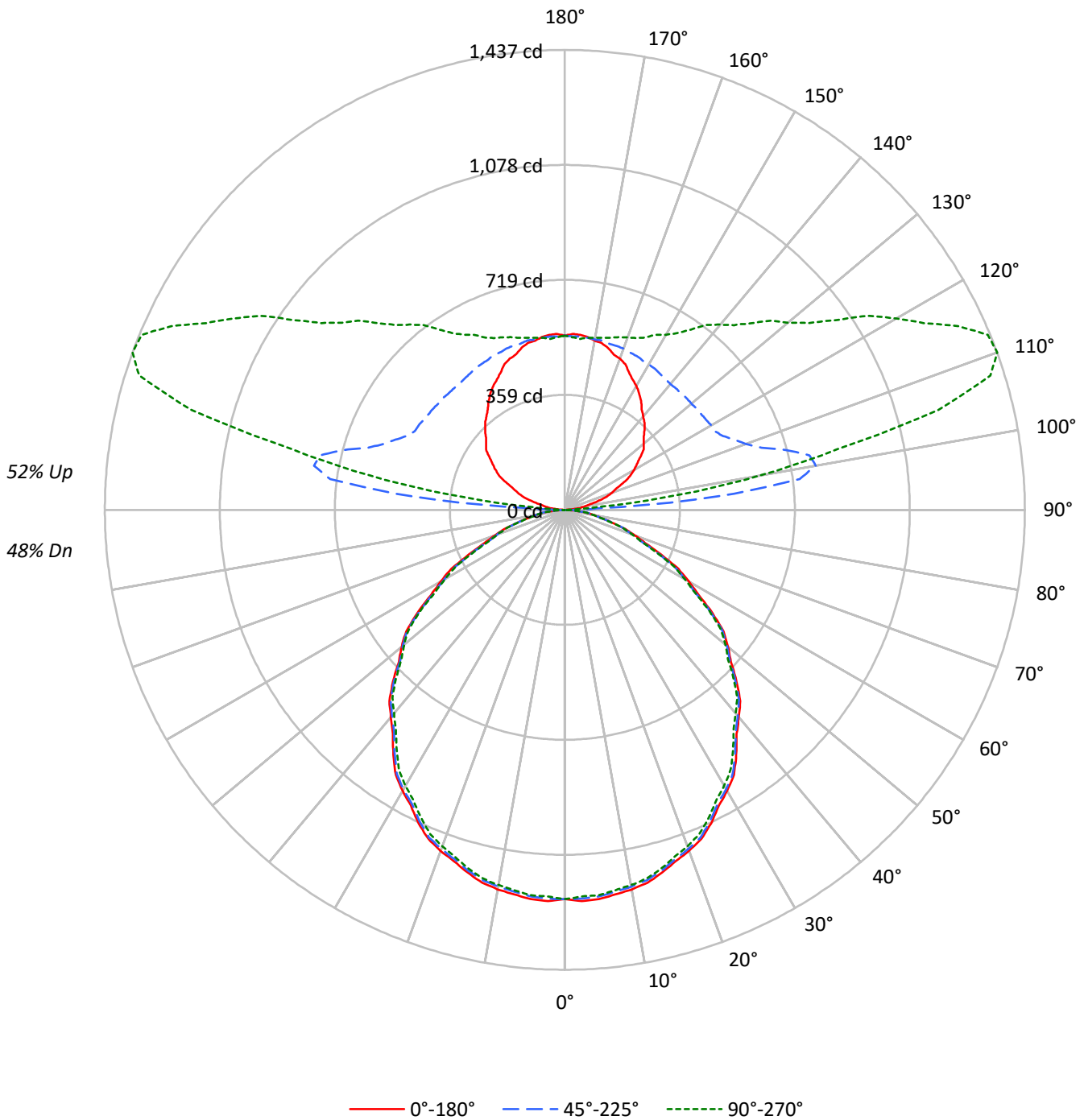
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39				34	
3	81	72	65	59	74	66	60	55	56	52	48	47	43	40	38	36	33				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22				19	
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20				17	
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11220	11220	11220
5°	11302	11233	11193
10°	11283	11203	11153
15°	11208	11147	11086
20°	11134	11071	10988
25°	11002	10925	10817
30°	10798	10741	10604
35°	10515	10443	10311
40°	10180	10115	9999
45°	9901	9832	9734
50°	9545	9485	9393
55°	9051	8932	8863
60°	8241	8005	7964
65°	7259	6958	6934
70°	6266	6007	6007
75°	5393	5319	5244
80°	4755	4814	4702
85°	3726	4065	4065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.8
10°-20°	328.3	5.1
20°-30°	491.8	7.6
30°-40°	576.8	8.9
40°-50°	578.7	8.9
50°-60°	493.6	7.6
60°-70°	321.9	5.0
70°-80°	161.5	2.5
80°-90°	44.7	0.7
90°-100°	248.0	3.8
100°-110°	705.7	10.9
110°-120°	676.1	10.4
120°-130°	535.1	8.2
130°-140°	429.5	6.6
140°-150°	336.2	5.2
150°-160°	246.0	3.8
160°-170°	152.4	2.3
170°-180°	51.7	0.8
0°-30°	935.1	14.4
0°-40°	1512.0	23.3
0°-60°	2584.3	39.8
0°-90°	3112.4	47.9
90°-120°	1629.8	25.1
90°-150°	2930.6	45.1
90°-180°	3381.0	52.1
0°-180°	6493.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1220	1209	1213	1209	1209	116
15°	1173	1162	1167	1163	1161	331
25°	1081	1068	1073	1064	1063	497
35°	934	924	927	916	916	583
45°	759	754	754	746	746	584
55°	563	561	555	552	551	500
65°	332	326	319	317	318	332
75°	151	151	149	148	147	164
85°	35	38	38	38	38	41
90°	0	0	0	0	0	2
95°	27	107	480	166	102	31
105°	110	166	719	1270	1208	116
115°	204	246	545	1155	1356	201
125°	288	319	520	864	1033	257
135°	352	381	514	730	825	271
145°	415	436	518	631	688	259
155°	474	485	531	571	594	219
165°	524	526	537	549	557	147
175°	548	545	543	540	536	52
180°	544	544	544	544	544	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.1	1216.1	1216.1	1216.1	1216.1
2.5°	1223.7	1213.7	1216.1	1214.2	1209.2
5°	1220.3	1208.9	1212.9	1208.6	1208.6
7.5°	1212.0	1199.5	1203.5	1199.2	1199.0
10°	1204.3	1191.8	1195.8	1191.5	1190.5
12.5°	1193.2	1180.7	1185.6	1180.5	1180.2
15°	1173.4	1162.0	1167.0	1162.7	1160.6
17.5°	1151.0	1138.5	1144.6	1138.7	1137.8
20°	1134.0	1121.5	1127.6	1119.1	1119.1
22.5°	1113.5	1101.0	1108.0	1096.9	1096.9
25°	1080.7	1068.2	1073.2	1063.6	1062.6
27.5°	1041.7	1029.4	1034.7	1023.8	1023.6
30°	1013.6	1002.1	1008.2	996.5	995.4
32.5°	982.9	972.2	976.7	964.9	963.9
35°	933.6	924.2	927.2	916.5	915.5
37.5°	881.8	872.2	875.6	866.5	866.1
40°	845.2	838.9	839.8	832.3	830.2
42.5°	811.1	804.0	804.9	797.4	797.0
45°	758.8	753.6	753.5	746.0	746.0
47.5°	703.4	699.5	698.3	692.1	691.9
50°	665.0	661.9	660.8	655.4	654.4
52.5°	625.0	623.5	619.9	615.4	615.2
55°	562.7	560.6	555.3	552.1	551.0
57.5°	495.2	491.0	484.9	480.3	481.1
60°	446.6	442.4	433.8	431.6	431.6
62.5°	399.7	394.7	386.0	383.1	384.7
65°	332.5	326.3	318.7	316.6	317.6
67.5°	271.6	265.9	257.7	257.7	256.9
70°	232.3	229.2	222.7	222.7	222.7
72.5°	197.4	195.9	191.2	191.2	190.3
75°	151.3	151.3	149.2	148.1	147.1
77.5°	113.4	113.8	112.8	111.7	109.8
80°	89.5	91.6	90.6	89.5	88.5
82.5°	67.4	69.4	69.3	67.4	67.1
85°	35.2	38.3	38.4	38.4	38.4
87.5°	9.4	12.7	13.6	13.7	14.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.3	43.9	101.8	29.6	22.3
95°	26.9	106.8	480.1	166.2	102.4
97.5°	49.5	125.1	739.4	529.1	362.6
100°	65.2	136.0	795.7	806.0	620.8
102.5°	82.6	147.7	783.3	1031.7	870.0
105°	109.7	166.3	719.1	1270.2	1207.5
107.5°	137.2	188.0	644.2	1337.5	1393.4
110°	156.2	203.8	601.2	1311.8	1437.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.5	219.6	572.2	1250.9	1429.8
115°	203.8	246.3	545.3	1155.2	1356.5
117.5°	229.7	269.6	529.4	1050.5	1263.8
120°	250.4	283.8	527.7	990.7	1195.1
122.5°	267.0	300.3	523.6	938.3	1128.1
125°	287.7	319.0	520.5	863.7	1032.7
127.5°	310.2	339.5	518.8	819.1	958.4
130°	321.8	351.1	516.3	788.1	909.5
132.5°	334.2	362.7	516.3	763.9	875.6
135°	351.8	381.1	514.3	729.6	824.7
137.5°	368.4	396.9	514.0	700.5	782.7
140°	380.8	410.1	513.2	676.4	755.3
142.5°	394.8	419.3	515.7	657.2	728.0
145°	414.9	436.2	518.4	631.4	688.1
147.5°	432.1	452.7	522.9	605.4	654.4
150°	447.0	461.2	524.6	596.8	631.2
152.5°	458.6	473.6	526.3	585.1	617.1
155°	473.9	485.0	530.8	570.7	593.9
157.5°	492.9	499.6	531.8	564.1	580.7
160°	502.9	507.9	536.0	559.1	573.2
162.5°	508.7	514.5	536.8	554.9	565.8
165°	523.6	525.6	537.0	548.6	556.7
167.5°	533.7	531.9	541.8	547.0	550.3
170°	537.0	536.0	540.1	541.3	545.3
172.5°	544.5	541.0	542.6	539.6	542.8
175°	548.4	545.4	543.2	540.0	536.0
177.5°	550.1	545.2	542.6	539.3	540.1
180°	544.3	544.3	544.3	544.3	544.3

(END OF REPORT)