

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: P523741

Luminaire Tested: **SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523741
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

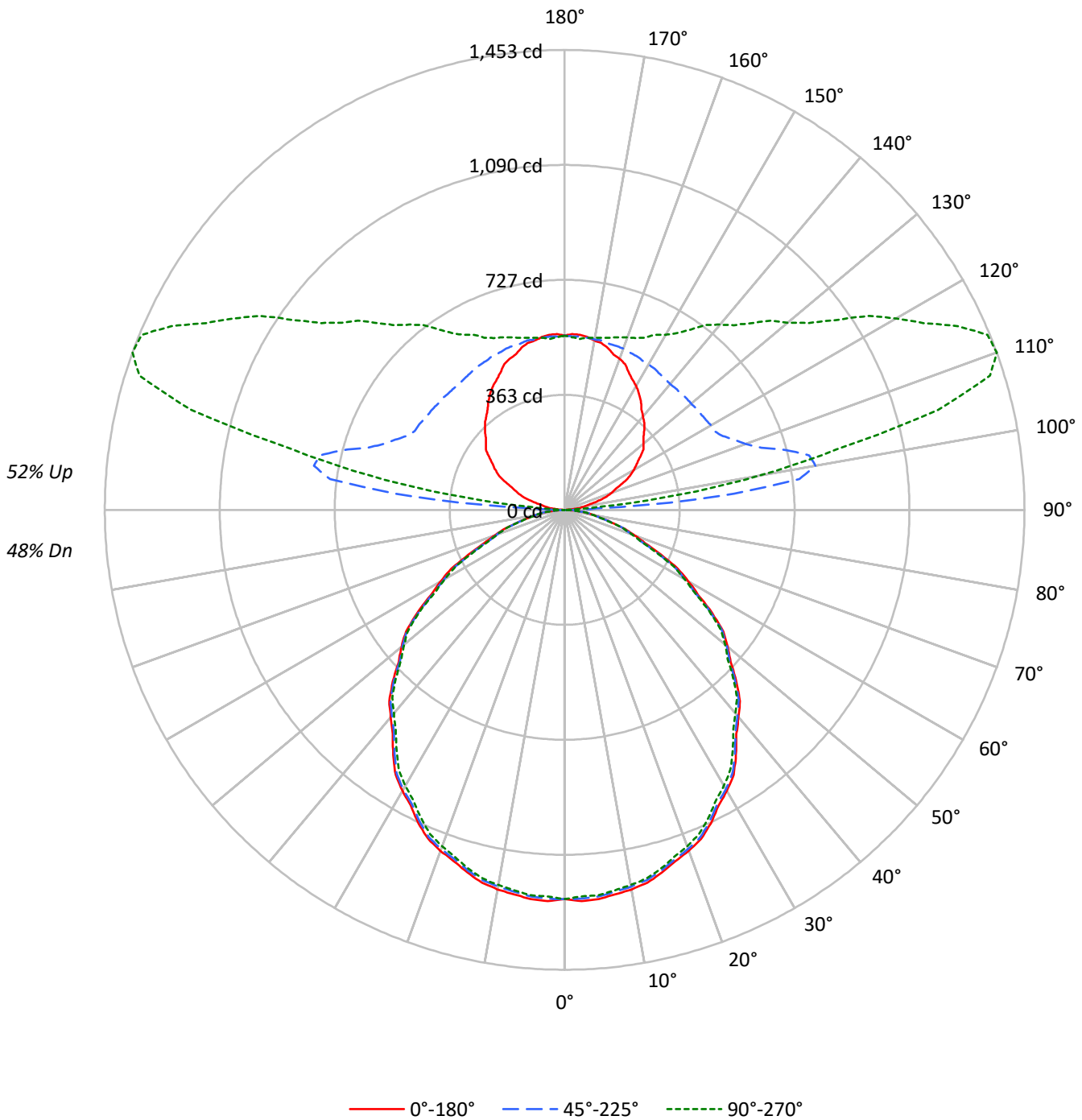
Lumens per Lamp: N/A
Luminaire Lumens: 6565.1 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.4
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	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	48	48	48	48	48		
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41	41	41	41	41	41	41		
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39	34	34	34	34	34	34	34		
3	81	72	65	59	74	66	60	55	56	52	48	47	43	40	38	36	33	29	29	29	29	29	29	29		
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25	25	25	25	25	25	25		
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25	22	22	22	22	22	22	22		
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19	19	19	19	19	19	19		
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20	17	17	17	17	17	17	17		
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15	15	15	15	15	15	15		
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16	14	14	14	14	14	14	14		
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13	13	13	13	13	13	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11344	11344	11344
5°	11427	11357	11317
10°	11408	11327	11277
15°	11332	11270	11209
20°	11257	11194	11109
25°	11124	11046	10936
30°	10918	10860	10723
35°	10632	10559	10425
40°	10292	10227	10110
45°	10010	9940	9842
50°	9651	9590	9496
55°	9153	9030	8961
60°	8331	8093	8053
65°	7340	7034	7010
70°	6337	6075	6075
75°	5454	5379	5301
80°	4808	4867	4750
85°	3769	4107	4107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.8
10°-20°	332.0	5.1
20°-30°	497.2	7.6
30°-40°	583.2	8.9
40°-50°	585.1	8.9
50°-60°	499.1	7.6
60°-70°	325.5	5.0
70°-80°	163.3	2.5
80°-90°	45.2	0.7
90°-100°	250.8	3.8
100°-110°	713.5	10.9
110°-120°	683.6	10.4
120°-130°	541.0	8.2
130°-140°	434.3	6.6
140°-150°	340.0	5.2
150°-160°	248.8	3.8
160°-170°	154.1	2.3
170°-180°	52.3	0.8
0°-30°	945.5	14.4
0°-40°	1528.7	23.3
0°-60°	2612.9	39.8
0°-90°	3146.9	47.9
90°-120°	1647.8	25.1
90°-150°	2963.1	45.1
90°-180°	3418.0	52.1
0°-180°	6565.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1234	1222	1226	1222	1222	117
15°	1186	1175	1180	1176	1174	335
25°	1093	1080	1085	1075	1074	502
35°	944	934	938	927	926	590
45°	767	762	762	754	754	591
55°	569	567	561	558	557	506
65°	336	330	322	320	321	336
75°	153	153	151	150	149	166
85°	36	39	39	39	39	42
90°	0	0	0	0	0	2
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1237.3	1227.2	1229.5	1227.7	1222.6
5°	1233.8	1222.2	1226.3	1222.0	1222.0
7.5°	1225.4	1212.8	1216.8	1212.5	1212.3
10°	1217.7	1205.0	1209.0	1204.7	1203.7
12.5°	1206.5	1193.8	1198.7	1193.5	1193.3
15°	1186.4	1174.8	1179.9	1175.6	1173.5
17.5°	1163.8	1151.1	1157.3	1151.3	1150.4
20°	1146.5	1133.9	1140.1	1131.5	1131.5
22.5°	1125.8	1113.2	1120.2	1109.0	1109.0
25°	1092.7	1080.0	1085.1	1075.4	1074.3
27.5°	1053.2	1040.8	1046.1	1035.1	1034.9
30°	1024.8	1013.2	1019.4	1007.5	1006.5
32.5°	993.7	983.0	987.5	975.6	974.6
35°	944.0	934.5	937.5	926.7	925.6
37.5°	891.6	881.9	885.3	876.1	875.6
40°	854.5	848.2	849.1	841.5	839.4
42.5°	820.0	812.9	813.8	806.2	805.8
45°	767.2	762.0	761.8	754.3	754.3
47.5°	711.2	707.2	706.0	699.8	699.6
50°	672.4	669.2	668.1	662.7	661.6
52.5°	631.9	630.4	626.7	622.2	622.0
55°	569.0	566.9	561.4	558.2	557.1
57.5°	500.6	496.4	490.3	485.6	486.4
60°	451.5	447.3	438.6	436.4	436.4
62.5°	404.1	399.0	390.3	387.3	389.0
65°	336.2	329.9	322.2	320.1	321.1
67.5°	274.6	268.9	260.6	260.5	259.7
70°	234.9	231.8	225.2	225.2	225.2
72.5°	199.6	198.1	193.3	193.3	192.5
75°	153.0	153.0	150.9	149.8	148.7
77.5°	114.7	115.1	114.0	112.9	111.0
80°	90.5	92.6	91.6	90.5	89.4
82.5°	68.1	70.2	70.0	68.1	67.9
85°	35.6	38.7	38.8	38.8	38.8
87.5°	9.5	12.9	13.8	13.8	14.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)