

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521839

Luminaire Tested: **SQ4-WB-075U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521839
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 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

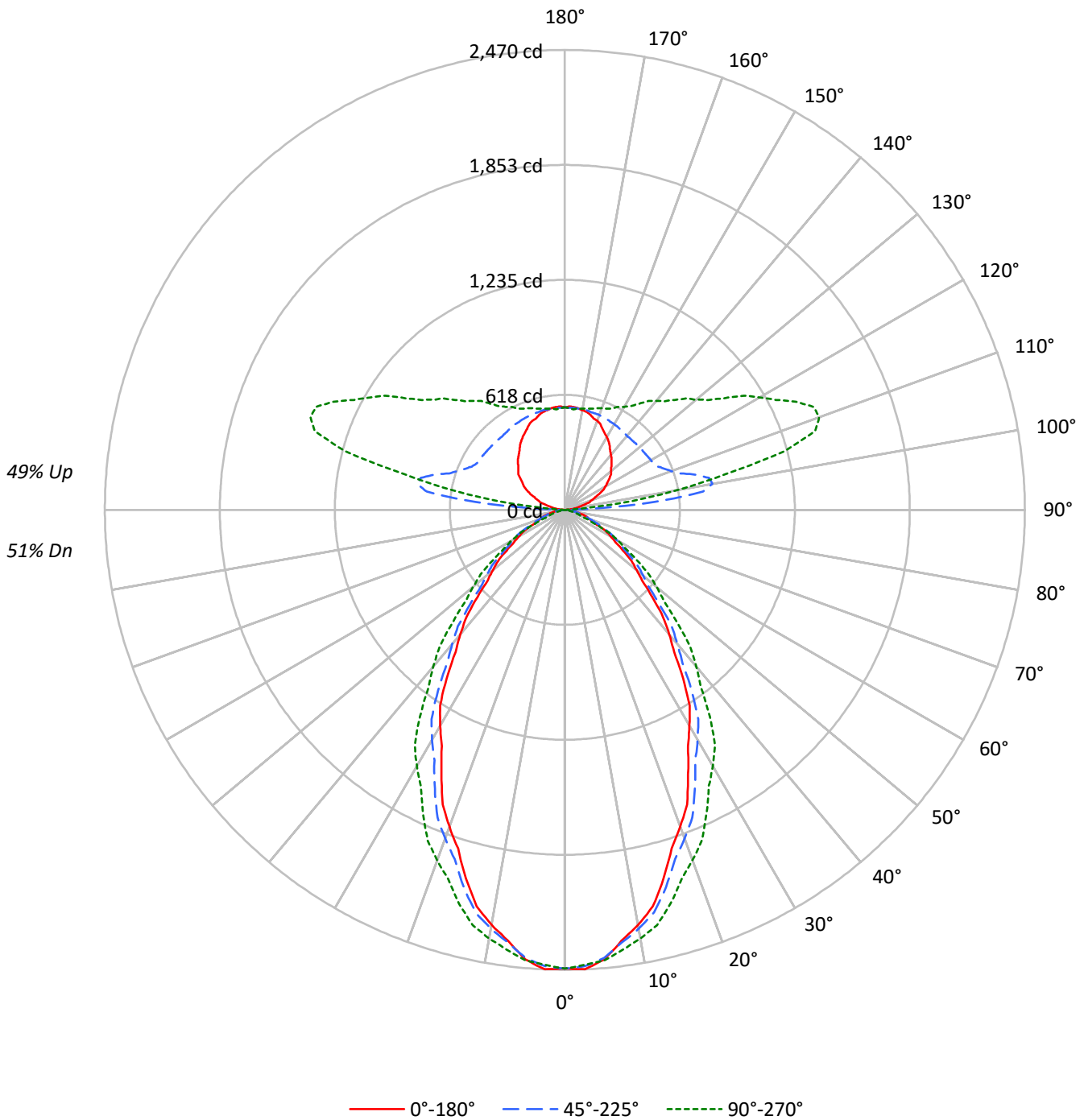
Lumens per Lamp: N/A
Luminaire Lumens: 7008.3 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 65.9
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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
1	99	95	92	89	92	88	85	83	75	73	71	63	62	61	52	51	51	45				
2	91	85	79	75	84	79	74	70	67	64	61	57	55	53	48	46	45	40				
3	84	76	69	64	78	70	65	60	61	56	53	52	49	46	43	41	39	35				
4	78	68	60	55	72	63	57	52	55	50	46	47	43	41	40	37	35	32				
5	72	61	54	48	66	57	51	46	50	45	41	43	39	36	36	34	31	28				
6	67	55	48	42	62	52	45	40	45	40	36	39	35	32	33	31	28	26				
7	62	50	43	38	57	47	41	36	42	36	33	36	32	29	31	28	26	23				
8	58	46	39	34	54	43	37	32	38	33	29	33	29	26	29	26	23	21				
9	54	42	35	31	50	40	34	29	35	30	27	31	27	24	27	24	22	20				
10	51	39	32	28	47	37	31	27	33	28	24	29	25	22	25	22	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22731	22731	22731
5°	22447	22367	22497
10°	21208	21401	21896
15°	19578	20032	20931
20°	17779	18448	19668
25°	15946	16815	18324
30°	14258	15191	16929
35°	12468	13369	15281
40°	10494	11327	13228
45°	8661	9409	11045
50°	7231	7883	9202
55°	6138	6764	7599
60°	5246	5864	6063
65°	4176	4932	3919
70°	3704	3849	2390
75°	3429	3123	1465
80°	3161	2874	1265
85°	2858	2636	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	3.2
10°-20°	587.8	8.4
20°-30°	761.4	10.9
30°-40°	745.6	10.6
40°-50°	570.7	8.1
50°-60°	380.3	5.4
60°-70°	207.5	3.0
70°-80°	86.5	1.2
80°-90°	24.5	0.3
90°-100°	250.8	3.6
100°-110°	713.5	10.2
110°-120°	683.6	9.8
120°-130°	541.0	7.7
130°-140°	434.3	6.2
140°-150°	340.0	4.9
150°-160°	248.8	3.5
160°-170°	154.1	2.2
170°-180°	52.3	0.7
0°-30°	1575.1	22.5
0°-40°	2320.7	33.1
0°-60°	3271.6	46.7
0°-90°	3590.1	51.2
90°-120°	1647.8	23.5
90°-150°	2963.1	42.3
90°-180°	3418.0	48.8
0°-180°	7008.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2464	2464	2464	2464	2464	
5°	2424	2399	2415	2421	2429	225
15°	2050	2042	2097	2154	2191	572
25°	1566	1571	1652	1724	1800	720
35°	1107	1112	1187	1267	1357	688
45°	664	676	721	776	846	518
55°	382	398	420	436	472	346
65°	191	207	226	197	180	199
75°	96	96	88	60	41	103
85°	27	27	25	16	10	29
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°	2463.7	2463.7	2463.7	2463.7	2463.7
2.5°	2469.8	2447.8	2453.3	2453.2	2446.4
5°	2423.7	2399.4	2415.1	2420.7	2429.1
7.5°	2333.8	2315.4	2343.9	2365.1	2382.2
10°	2263.7	2247.9	2284.3	2315.0	2337.2
12.5°	2182.4	2169.1	2214.2	2255.5	2284.5
15°	2049.7	2042.3	2097.2	2154.3	2191.3
17.5°	1907.6	1904.0	1967.1	2033.7	2081.0
20°	1810.8	1809.7	1878.9	1948.2	2003.2
22.5°	1713.0	1715.4	1788.1	1860.2	1922.8
25°	1566.4	1570.7	1651.8	1723.8	1800.0
27.5°	1430.9	1432.8	1516.7	1592.7	1673.9
30°	1338.3	1343.6	1425.9	1504.6	1589.1
32.5°	1245.8	1251.9	1332.5	1413.8	1500.1
35°	1107.0	1112.3	1187.0	1266.9	1356.7
37.5°	963.9	971.1	1037.4	1112.9	1201.3
40°	871.3	881.9	940.5	1011.7	1098.3
42.5°	782.2	795.4	849.7	917.2	995.4
45°	663.8	676.4	721.1	775.6	846.5
47.5°	561.7	576.3	610.6	657.6	718.0
50°	503.8	517.5	549.2	584.0	641.1
52.5°	452.7	466.5	494.7	521.5	570.1
55°	381.6	397.5	420.5	436.5	472.4
57.5°	323.2	338.5	356.7	363.9	385.7
60°	284.3	301.2	317.8	317.0	328.6
62.5°	248.9	263.2	279.8	268.3	269.0
65°	191.3	207.2	225.9	197.4	179.5
67.5°	154.6	158.0	177.3	137.7	116.3
70°	137.3	137.3	142.7	106.6	88.6
72.5°	120.9	120.9	115.9	86.7	67.9
75°	96.2	96.2	87.6	60.1	41.1
77.5°	74.2	73.3	67.0	44.8	29.8
80°	59.5	59.5	54.1	35.4	23.8
82.5°	46.5	46.5	41.9	27.7	17.7
85°	27.0	27.0	24.9	16.1	9.7
87.5°	9.5	9.5	8.6	5.2	4.3
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)