

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: P519194

Luminaire Tested: **SQ4-WB-075U-075D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519194
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

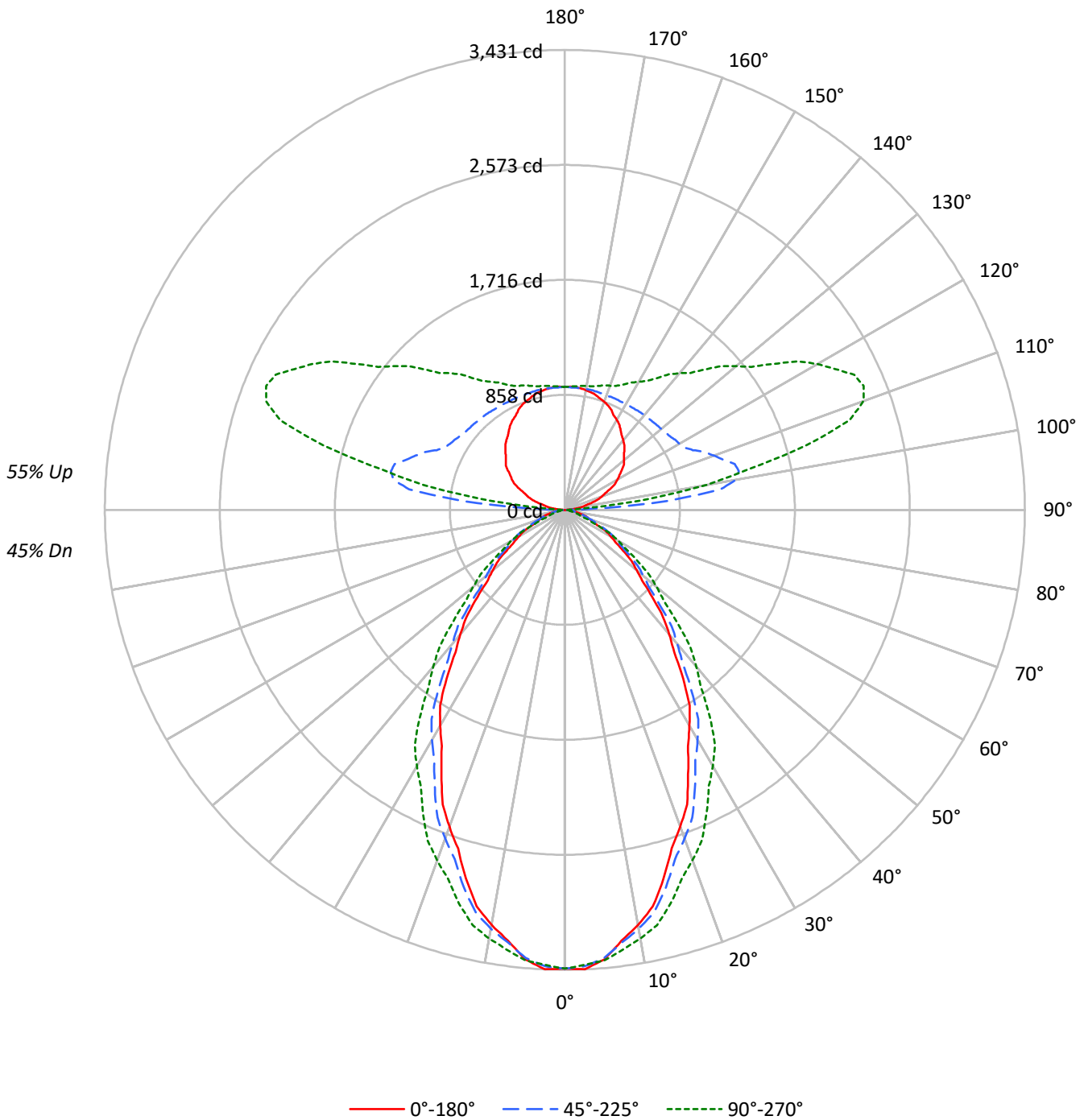
Lumens per Lamp: N/A
Luminaire Lumens: 10976.7 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15207
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9902	10551	11758
35°	8660	9285	10613
40°	7288	7867	9188
45°	6015	6534	7671
50°	5022	5474	6391
55°	4263	4698	5278
60°	3643	4073	4212
65°	2901	3425	2721
70°	2572	2673	1660
75°	2381	2167	1018
80°	2194	1995	877
85°	1985	1826	715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.9	2.9
10°-20°	816.5	7.4
20°-30°	1057.6	9.6
30°-40°	1035.6	9.4
40°-50°	792.7	7.2
50°-60°	528.2	4.8
60°-70°	288.2	2.6
70°-80°	120.1	1.1
80°-90°	36.4	0.3
90°-100°	433.5	3.9
100°-110°	1192.6	10.9
110°-120°	1231.0	11.2
120°-130°	986.3	9.0
130°-140°	774.7	7.1
140°-150°	593.7	5.4
150°-160°	426.8	3.9
160°-170°	261.0	2.4
170°-180°	88.0	0.8
0°-30°	2187.9	19.9
0°-40°	3223.5	29.4
0°-60°	4544.5	41.4
0°-90°	4989.1	45.5
90°-120°	2857.1	26.0
90°-150°	5211.7	47.5
90°-180°	5988.0	54.6
0°-180°	10976.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3422	3422	3422	3422	3422	
5°	3367	3333	3355	3362	3374	313
15°	2847	2837	2913	2992	3044	795
25°	2176	2182	2294	2394	2500	1001
35°	1538	1545	1649	1760	1885	956
45°	922	940	1002	1077	1176	719
55°	530	552	584	606	656	481
65°	266	288	314	274	249	276
75°	134	134	122	84	57	143
85°	38	38	34	22	14	41
90°	2	8	14	18	18	6
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3422.2	3422.2	3422.2	3422.2	3422.2
2.5°	3430.6	3400.1	3407.8	3407.6	3398.2
5°	3366.7	3332.9	3354.7	3362.4	3374.2
7.5°	3241.7	3216.2	3255.8	3285.2	3309.0
10°	3144.4	3122.4	3173.0	3215.7	3246.5
12.5°	3031.5	3013.0	3075.7	3133.0	3173.3
15°	2847.1	2836.8	2913.2	2992.4	3043.8
17.5°	2649.8	2644.8	2732.4	2824.9	2890.7
20°	2515.2	2513.8	2609.8	2706.2	2782.5
22.5°	2379.5	2382.7	2483.7	2583.9	2670.8
25°	2175.9	2181.7	2294.5	2394.5	2500.2
27.5°	1987.6	1990.2	2106.8	2212.4	2325.1
30°	1859.0	1866.4	1980.7	2089.9	2207.4
32.5°	1730.5	1739.0	1850.9	1963.9	2083.7
35°	1537.7	1545.0	1648.8	1759.8	1884.6
37.5°	1338.9	1348.8	1441.0	1545.9	1668.6
40°	1210.3	1225.0	1306.4	1405.3	1525.7
42.5°	1086.6	1104.8	1180.3	1274.1	1382.7
45°	922.0	939.6	1001.6	1077.4	1175.8
47.5°	780.3	800.5	848.1	913.4	997.4
50°	699.8	718.9	762.8	811.2	890.5
52.5°	628.9	648.0	687.1	724.4	792.0
55°	530.1	552.1	584.1	606.3	656.2
57.5°	449.0	470.1	495.5	505.5	535.8
60°	394.9	418.4	441.5	440.3	456.5
62.5°	345.7	365.6	388.6	372.7	373.6
65°	265.8	287.8	313.8	274.2	249.3
67.5°	214.7	219.4	246.3	191.2	161.6
70°	190.7	190.7	198.2	148.1	123.1
72.5°	167.9	167.9	161.0	120.4	94.3
75°	133.6	133.6	121.6	83.5	57.1
77.5°	103.0	101.8	93.1	62.3	41.4
80°	82.6	82.6	75.1	49.2	33.0
82.5°	64.6	64.6	58.3	38.4	24.6
85°	37.5	37.5	34.5	22.3	13.5
87.5°	13.6	14.8	14.8	10.7	9.5
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)