

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: P564093

Luminaire Tested: **SQ4-PR1-075U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564093
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

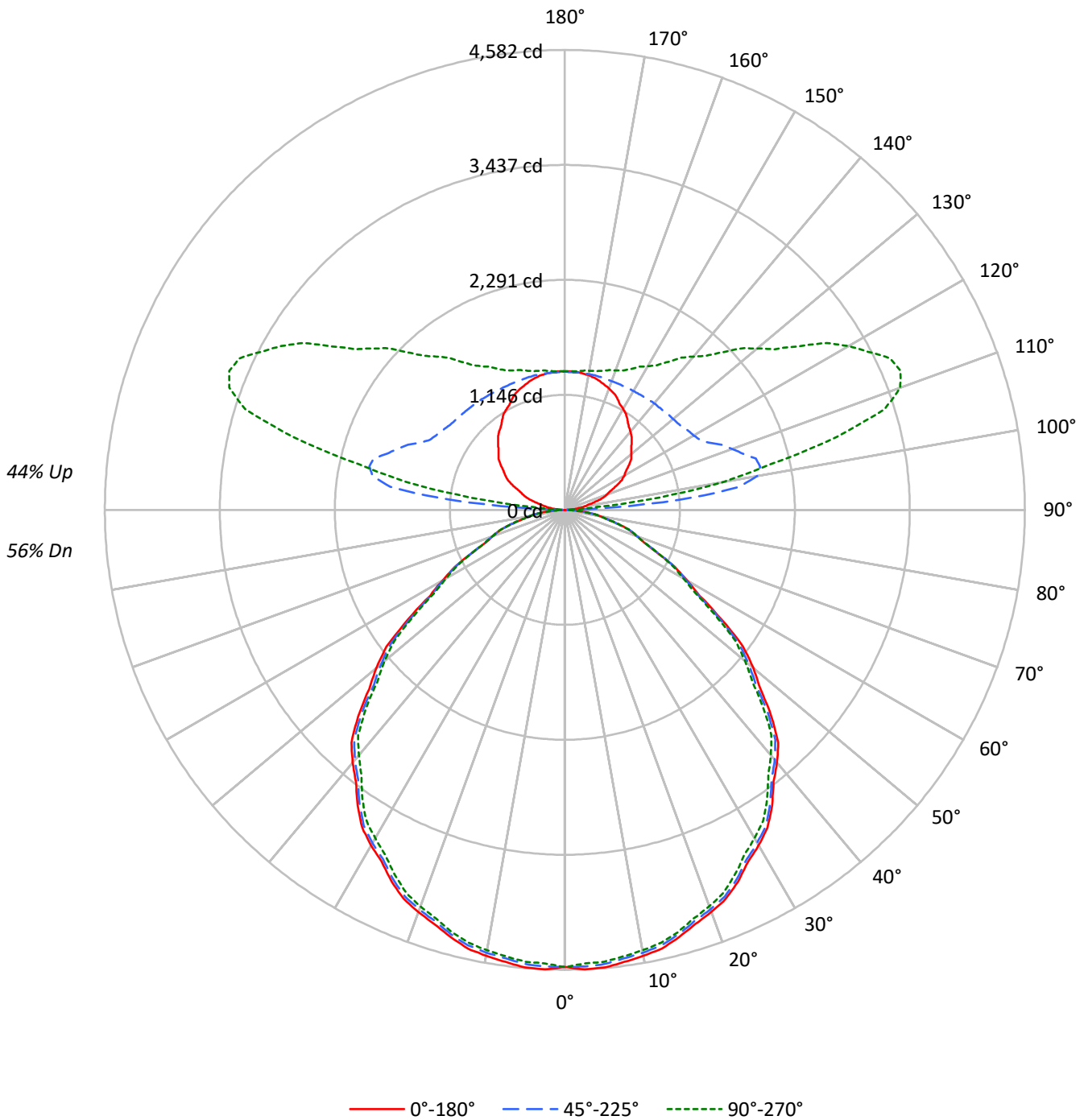
Lumens per Lamp: N/A
Luminaire Lumens: 20369.6 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 162.2
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13915
15°	14025	13938	13863
20°	13954	13865	13762
25°	13856	13763	13604
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12819
45°	12659	12437	12181
50°	11711	11429	11204
55°	10222	9990	9780
60°	8614	8541	8372
65°	7450	7479	7422
70°	6843	6878	6878
75°	6572	6572	6619
80°	6183	6252	6183
85°	4982	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	2.1
10°-20°	1232.2	6.0
20°-30°	1858.5	9.1
30°-40°	2214.4	10.9
40°-50°	2183.2	10.7
50°-60°	1668.5	8.2
60°-70°	1032.5	5.1
70°-80°	586.5	2.9
80°-90°	181.9	0.9
90°-100°	650.2	3.2
100°-110°	1789.0	8.8
110°-120°	1846.5	9.1
120°-130°	1479.4	7.3
130°-140°	1162.0	5.7
140°-150°	890.5	4.4
150°-160°	640.2	3.1
160°-170°	391.5	1.9
170°-180°	132.0	0.6
0°-30°	3521.3	17.3
0°-40°	5735.7	28.2
0°-60°	9587.4	47.1
0°-90°	11388.3	55.9
90°-120°	4285.7	21.0
90°-150°	7817.7	38.4
90°-180°	8981.0	44.1
0°-180°	20369.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4554	4554	4554	4554	4554	
5°	4578	4528	4542	4526	4519	434
15°	4405	4359	4378	4362	4354	1243
25°	4083	4034	4056	4013	4009	1879
35°	3597	3555	3566	3518	3515	2245
45°	2910	2872	2860	2808	2801	2230
55°	1906	1876	1863	1832	1824	1708
65°	1024	1016	1028	1020	1020	1037
75°	553	553	553	557	557	584
85°	141	149	157	157	157	164
90°	3	12	20	26	26	12
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4554.1	4554.1	4554.1	4554.1	4554.1
2.5°	4582.3	4542.5	4554.1	4544.2	4522.7
5°	4577.6	4527.8	4542.3	4526.5	4518.8
7.5°	4542.3	4493.2	4507.8	4492.0	4487.4
10°	4511.0	4464.9	4479.6	4463.7	4456.0
12.5°	4476.4	4427.3	4445.1	4426.1	4418.4
15°	4405.0	4359.0	4377.6	4361.7	4354.1
17.5°	4326.6	4277.5	4296.0	4277.7	4267.8
20°	4263.8	4217.8	4236.4	4208.8	4205.0
22.5°	4194.8	4148.8	4167.3	4130.4	4129.7
25°	4083.4	4033.5	4055.9	4012.7	4008.9
27.5°	3950.8	3904.8	3923.4	3879.3	3874.7
30°	3859.8	3813.8	3832.4	3785.1	3777.4
32.5°	3756.3	3713.3	3728.8	3681.6	3677.0
35°	3597.0	3554.8	3565.6	3518.5	3514.6
37.5°	3415.8	3377.4	3383.6	3331.7	3327.9
40°	3287.1	3248.8	3251.8	3196.8	3193.0
42.5°	3145.9	3107.5	3104.3	3049.3	3045.5
45°	2910.5	2872.2	2859.6	2808.4	2800.7
47.5°	2642.2	2603.9	2580.3	2538.6	2533.2
50°	2447.7	2409.3	2388.8	2353.3	2341.8
52.5°	2237.4	2199.1	2181.7	2149.3	2137.8
55°	1906.4	1875.7	1863.2	1831.7	1824.0
57.5°	1591.8	1571.1	1567.5	1536.8	1533.7
60°	1400.4	1388.9	1388.6	1361.1	1361.1
62.5°	1237.2	1228.7	1234.8	1216.7	1213.6
65°	1023.8	1016.1	1027.7	1019.9	1019.9
67.5°	855.1	855.1	862.2	859.0	859.0
70°	761.0	761.0	764.9	764.9	764.9
72.5°	676.3	673.2	683.3	683.2	680.2
75°	553.1	553.1	553.1	557.0	557.0
77.5°	430.7	431.5	434.6	433.8	430.7
80°	349.1	352.9	353.0	349.1	349.1
82.5°	267.5	271.4	271.4	270.6	267.5
85°	141.2	148.9	156.9	156.9	156.9
87.5°	41.4	55.4	66.9	68.0	64.9
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)