

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: P520113

Luminaire Tested: **SQ4-F-0U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520113
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

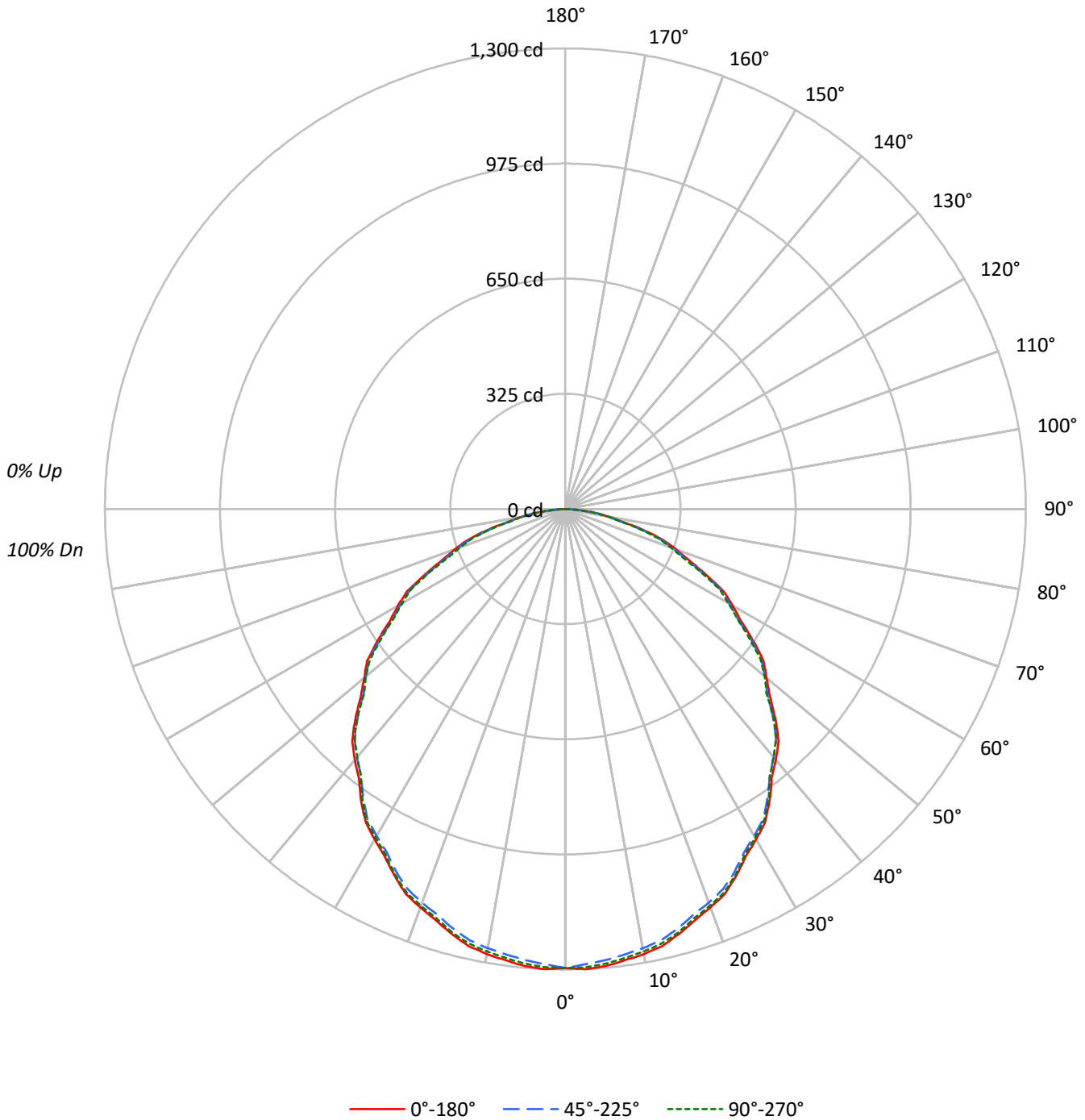
Lumens per Lamp: N/A
Luminaire Lumens: 3536.8 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7865	7923
15°	7906	7809	7876
20°	7834	7742	7804
25°	7748	7669	7725
30°	7651	7566	7608
35°	7550	7470	7506
40°	7422	7347	7337
45°	7295	7203	7223
50°	7093	7036	7036
55°	6927	6840	6777
60°	6704	6589	6531
65°	6341	6223	6137
70°	5956	5809	5661
75°	5359	5164	5052
80°	4282	4204	4162
85°	2569	2901	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	3.5
10°-20°	348.1	9.8
20°-30°	523.1	14.8
30°-40°	624.1	17.6
40°-50°	640.1	18.1
50°-60°	570.3	16.1
60°-70°	425.2	12.0
70°-80°	230.6	6.5
80°-90°	53.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	993.5	28.1
0°-40°	1617.6	45.7
0°-60°	2828.0	80.0
0°-90°	3536.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3536.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1296	1293	1279	1290	1288	123
15°	1242	1239	1226	1236	1237	350
25°	1142	1140	1130	1136	1138	526
35°	1006	1003	995	995	1000	628
45°	839	835	828	828	830	645
55°	646	645	638	632	632	577
65°	436	436	428	423	422	434
75°	226	221	217	214	213	237
85°	36	39	41	41	42	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.6	1295.6	1295.6	1295.6	1295.6
2.5°	1300.3	1297.6	1286.2	1295.6	1294.6
5°	1295.6	1293.3	1279.2	1289.7	1288.5
7.5°	1285.0	1282.5	1268.6	1279.2	1278.9
10°	1275.6	1272.2	1259.2	1269.7	1268.6
12.5°	1263.4	1260.0	1247.0	1257.5	1256.4
15°	1241.6	1239.2	1226.3	1235.7	1236.9
17.5°	1216.7	1212.3	1200.7	1209.9	1211.0
20°	1196.9	1193.5	1182.8	1191.1	1192.2
22.5°	1176.2	1172.8	1162.2	1170.4	1171.5
25°	1141.7	1140.5	1130.0	1135.9	1138.2
27.5°	1104.4	1101.2	1092.6	1097.1	1099.4
30°	1077.2	1074.8	1065.3	1069.0	1071.2
32.5°	1048.9	1047.5	1039.1	1040.7	1044.0
35°	1005.5	1003.2	994.9	995.0	999.6
37.5°	957.3	954.7	947.9	946.8	948.6
40°	924.4	921.0	915.0	913.8	913.8
42.5°	890.6	888.0	880.2	878.2	880.9
45°	838.7	835.3	828.1	828.2	830.4
47.5°	782.5	781.1	772.9	769.1	770.0
50°	741.2	743.5	735.3	730.7	735.3
52.5°	705.5	704.1	696.8	692.1	694.0
55°	646.0	644.9	637.8	632.0	632.0
57.5°	586.4	583.4	576.1	571.6	575.1
60°	545.0	543.9	535.6	527.5	530.9
62.5°	503.6	501.6	493.3	488.0	490.6
65°	435.7	435.7	427.6	422.9	421.7
67.5°	376.3	370.8	366.3	360.6	359.0
70°	331.2	326.6	323.0	318.2	314.8
72.5°	287.1	284.3	278.9	274.2	273.5
75°	225.5	220.9	217.3	213.7	212.6
77.5°	160.5	159.5	156.3	154.4	155.1
80°	120.9	120.9	118.7	118.6	117.5
82.5°	85.3	86.2	85.7	83.8	83.6
85°	36.4	38.7	41.1	41.1	42.3
87.5°	6.6	11.2	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)