

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: P520064

Luminaire Tested: **SQ4-F-075U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520064
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

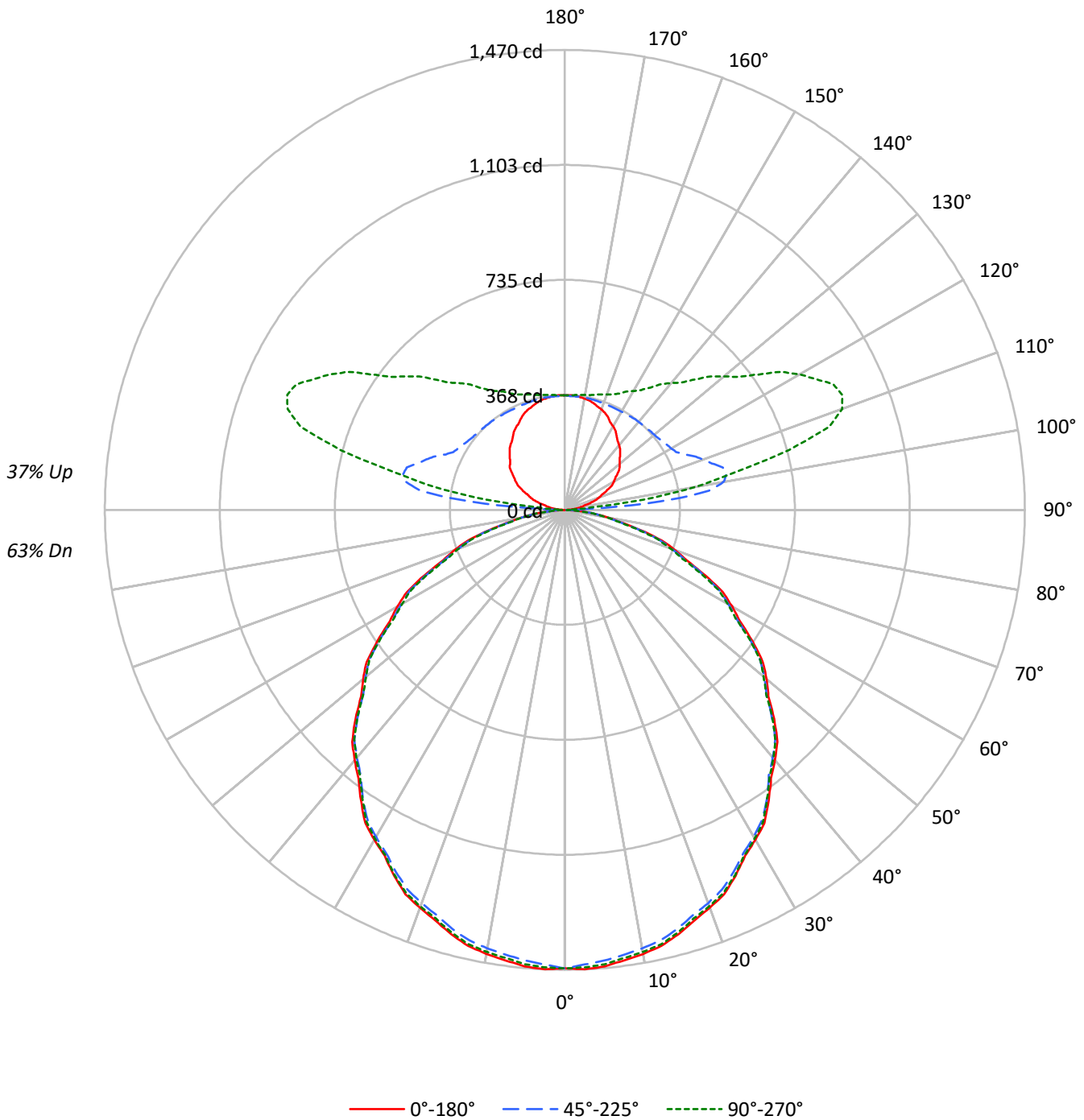
Lumens per Lamp: N/A
Luminaire Lumens: 6381.4 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63				
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	59	57	53				
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48	44				
3	83	74	66	60	78	69	63	57	61	56	52	54	49	46	47	43	41	37				
4	76	65	57	51	71	61	54	48	54	48	44	48	43	39	41	38	35	32				
5	70	58	50	44	65	55	47	42	49	42	38	43	38	34	37	34	30	27				
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24				
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24	21				
8	55	43	35	29	52	41	33	28	36	30	26	32	27	24	28	24	21	19				
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17				
10	48	36	28	24	45	34	27	23	31	25	21	27	23	19	24	20	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13520	13520	13520
5°	13564	13393	13504
10°	13502	13336	13441
15°	13411	13250	13358
20°	13288	13137	13240
25°	13136	12997	13104
30°	12974	12862	12931
35°	12789	12681	12690
40°	12579	12444	12481
45°	12343	12208	12228
50°	12074	11935	11900
55°	11766	11598	11572
60°	11385	11130	11071
65°	10793	10566	10424
70°	10051	9789	9660
75°	8940	8741	8480
80°	7284	7072	7029
85°	4351	4954	4954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	2.2
10°-20°	393.8	6.2
20°-30°	591.6	9.3
30°-40°	705.9	11.1
40°-50°	723.6	11.3
50°-60°	644.9	10.1
60°-70°	480.1	7.5
70°-80°	260.1	4.1
80°-90°	60.7	1.0
90°-100°	172.5	2.7
100°-110°	474.5	7.4
110°-120°	489.8	7.7
120°-130°	392.4	6.1
130°-140°	308.2	4.8
140°-150°	236.2	3.7
150°-160°	169.8	2.7
160°-170°	103.8	1.6
170°-180°	35.0	0.5
0°-30°	1123.7	17.6
0°-40°	1829.6	28.7
0°-60°	3198.1	50.1
0°-90°	3999.0	62.7
90°-120°	1136.8	17.8
90°-150°	2073.6	32.5
90°-180°	2382.0	37.3
0°-180°	6381.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1465	1462	1446	1459	1458	139
15°	1404	1401	1387	1399	1398	396
25°	1290	1288	1277	1284	1287	594
35°	1136	1135	1126	1126	1127	710
45°	946	944	936	934	937	729
55°	732	729	721	715	719	653
65°	494	491	484	481	478	490
75°	251	251	245	240	238	266
85°	41	47	47	48	47	57
90°	1	3	6	7	7	3
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	521	589	193
145°	289	308	364	444	478	181
155°	327	338	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

TEST NUMBER: P520064

CATALOG NUMBER: SQ4-F-075U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.4	1465.4	1465.4	1465.4	1465.4
2.5°	1469.9	1467.5	1454.5	1465.3	1463.5
5°	1464.6	1462.3	1446.1	1459.0	1458.1
7.5°	1452.2	1449.2	1434.4	1446.5	1445.1
10°	1441.2	1438.9	1423.5	1435.5	1434.7
12.5°	1427.6	1425.3	1409.9	1422.1	1421.9
15°	1404.1	1401.0	1387.2	1399.3	1398.5
17.5°	1376.0	1372.3	1358.6	1368.2	1369.8
20°	1353.4	1350.9	1338.0	1346.9	1348.5
22.5°	1330.1	1327.1	1313.5	1323.7	1325.3
25°	1290.4	1288.1	1276.7	1284.0	1287.2
27.5°	1246.8	1246.8	1236.4	1241.6	1243.5
30°	1217.8	1217.8	1207.3	1210.6	1213.8
32.5°	1186.8	1184.3	1174.5	1177.1	1180.2
35°	1135.5	1134.7	1125.9	1125.9	1126.7
37.5°	1082.5	1080.3	1070.6	1071.3	1075.0
40°	1044.4	1042.8	1033.2	1033.2	1036.3
42.5°	1005.7	1004.1	995.7	994.5	995.7
45°	946.0	943.7	935.6	934.1	937.2
47.5°	882.5	883.1	873.4	871.2	872.9
50°	841.2	841.2	831.5	826.7	829.1
52.5°	797.9	796.7	787.0	781.6	787.2
55°	731.5	729.1	721.0	715.4	719.4
57.5°	663.4	659.8	651.7	645.6	647.7
60°	617.0	611.5	603.2	598.5	600.0
62.5°	568.6	565.6	556.8	549.4	553.0
65°	494.4	491.3	484.0	480.6	477.5
67.5°	421.6	419.6	411.3	407.8	405.8
70°	372.6	368.6	362.9	358.9	358.1
72.5°	324.8	320.3	314.5	311.1	309.0
75°	250.8	250.8	245.2	240.3	237.9
77.5°	180.3	181.0	176.4	174.6	173.5
80°	137.1	137.1	133.1	131.5	132.3
82.5°	95.8	97.7	96.3	94.1	92.9
85°	41.1	46.6	46.8	47.5	46.8
87.5°	7.3	12.2	13.4	12.4	11.1
90°	0.8	3.0	5.5	7.0	7.0
92.5°	10.8	45.9	79.5	30.5	25.0
95°	25.7	94.2	305.0	130.4	83.2
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.8	118.3	529.0	645.9	558.0
105°	84.8	130.5	522.9	796.3	743.1
107.5°	103.8	145.4	493.2	869.9	885.8
110°	117.5	155.5	470.8	888.2	943.0

TEST NUMBER: P520064

CATALOG NUMBER: SQ4-F-075U-125D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.1	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.0	904.5
120°	181.2	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.4	820.3
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.4	574.6	662.9
132.5°	237.5	265.7	371.6	552.1	631.8
135°	249.7	277.1	369.5	520.6	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.5	367.3	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.6	308.4	364.2	443.5	477.7
147.5°	300.7	317.7	363.2	426.3	453.7
150°	308.1	323.4	362.6	416.8	438.0
152.5°	315.0	328.9	362.0	408.6	426.3
155°	326.8	337.5	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.2	387.1
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.2	374.7	375.3
170°	361.0	363.3	364.2	373.4	373.4
172.5°	363.5	364.5	364.2	371.6	371.0
175°	365.7	366.4	364.2	368.8	368.1
177.5°	366.3	366.3	363.9	367.6	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)