

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: P563659

Luminaire Tested: **SQ4-PP3-125U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563659
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

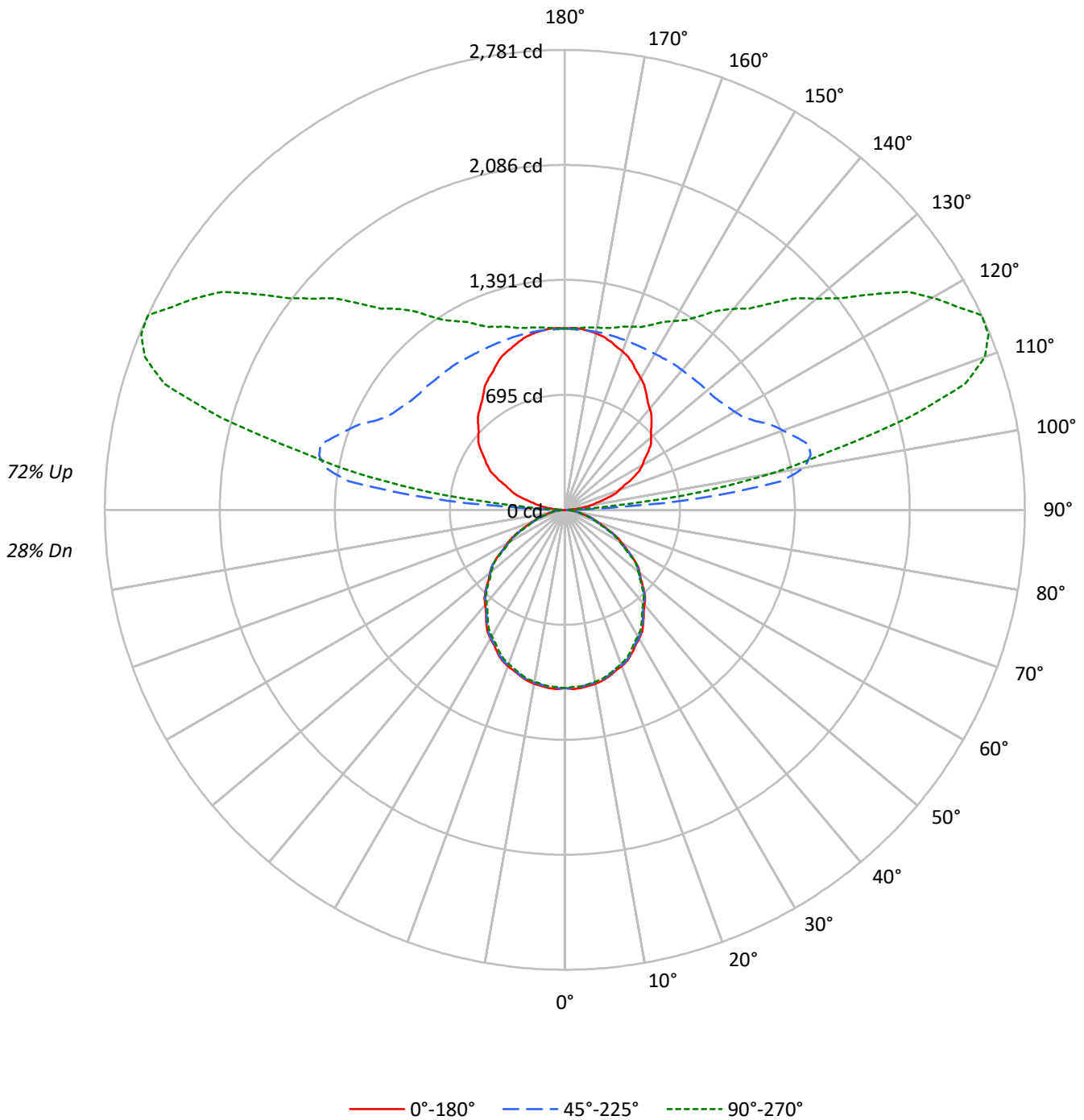
Lumens per Lamp: N/A
Luminaire Lumens: 9840.7 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6632	6632	6632
5°	6681	6640	6617
10°	6670	6623	6594
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6394
30°	6384	6349	6269
35°	6216	6174	6096
40°	6018	5979	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4731	4709
65°	4292	4113	4098
70°	3705	3552	3552
75°	3189	3144	3099
80°	2812	2844	2777
85°	2202	2399	2399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	1.0
10°-20°	291.2	3.0
20°-30°	436.1	4.4
30°-40°	511.5	5.2
40°-50°	513.1	5.2
50°-60°	437.7	4.4
60°-70°	285.5	2.9
70°-80°	143.2	1.5
80°-90°	42.2	0.4
90°-100°	512.9	5.2
100°-110°	1381.7	14.0
110°-120°	1450.0	14.7
120°-130°	1176.7	12.0
130°-140°	922.8	9.4
140°-150°	708.5	7.2
150°-160°	509.4	5.2
160°-170°	311.2	3.2
170°-180°	105.0	1.1
0°-30°	829.2	8.4
0°-40°	1340.7	13.6
0°-60°	2291.6	23.3
0°-90°	2762.5	28.1
90°-120°	3344.6	34.0
90°-150°	6152.6	62.5
90°-180°	7078.0	71.9
0°-180°	9840.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1082	1072	1076	1072	1072	103
15°	1040	1030	1035	1031	1029	294
25°	958	947	952	943	942	441
35°	828	820	822	813	812	517
45°	673	668	668	662	662	518
55°	499	497	492	490	489	443
65°	295	289	283	281	282	294
75°	134	134	132	131	130	146
85°	31	34	34	34	34	37
90°	3	8	17	18	18	7
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1085.1	1076.3	1078.3	1076.7	1072.3
5°	1082.1	1072.0	1075.5	1071.7	1071.7
7.5°	1074.7	1063.7	1067.2	1063.4	1063.2
10°	1067.9	1056.9	1060.4	1056.6	1055.7
12.5°	1058.1	1047.0	1051.3	1046.8	1046.6
15°	1040.5	1030.4	1034.9	1031.0	1029.2
17.5°	1020.7	1009.6	1015.0	1009.7	1009.0
20°	1005.6	994.5	999.9	992.3	992.3
22.5°	987.4	976.3	982.5	972.7	972.7
25°	958.3	947.2	951.7	943.2	942.2
27.5°	923.7	912.8	917.5	907.8	907.7
30°	898.8	888.6	894.0	883.6	882.7
32.5°	871.6	862.1	866.1	855.7	854.7
35°	827.9	819.6	822.2	812.8	811.8
37.5°	782.0	773.5	776.5	768.3	768.0
40°	749.5	743.9	744.7	738.1	736.2
42.5°	719.2	712.9	713.7	707.1	706.7
45°	672.9	668.3	668.2	661.6	661.6
47.5°	623.8	620.2	619.2	613.7	613.5
50°	589.7	587.0	586.0	581.2	580.3
52.5°	554.2	552.9	549.7	545.7	545.5
55°	499.0	497.2	492.4	489.5	488.6
57.5°	439.1	435.4	430.0	425.9	426.6
60°	396.0	392.3	384.6	382.8	382.8
62.5°	354.4	350.0	342.3	339.7	341.2
65°	294.9	289.3	282.6	280.7	281.6
67.5°	240.8	235.8	228.5	228.5	227.8
70°	206.0	203.3	197.5	197.5	197.5
72.5°	175.0	173.7	169.5	169.5	168.8
75°	134.2	134.2	132.3	131.3	130.4
77.5°	100.6	100.9	100.0	99.0	97.3
80°	79.4	81.2	80.3	79.4	78.4
82.5°	59.7	61.6	61.4	59.7	59.5
85°	31.2	34.0	34.0	34.0	34.0
87.5°	8.9	12.9	15.4	15.7	16.5
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)