

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: P563755

Luminaire Tested: **SQ4-PP3-150U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563755
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

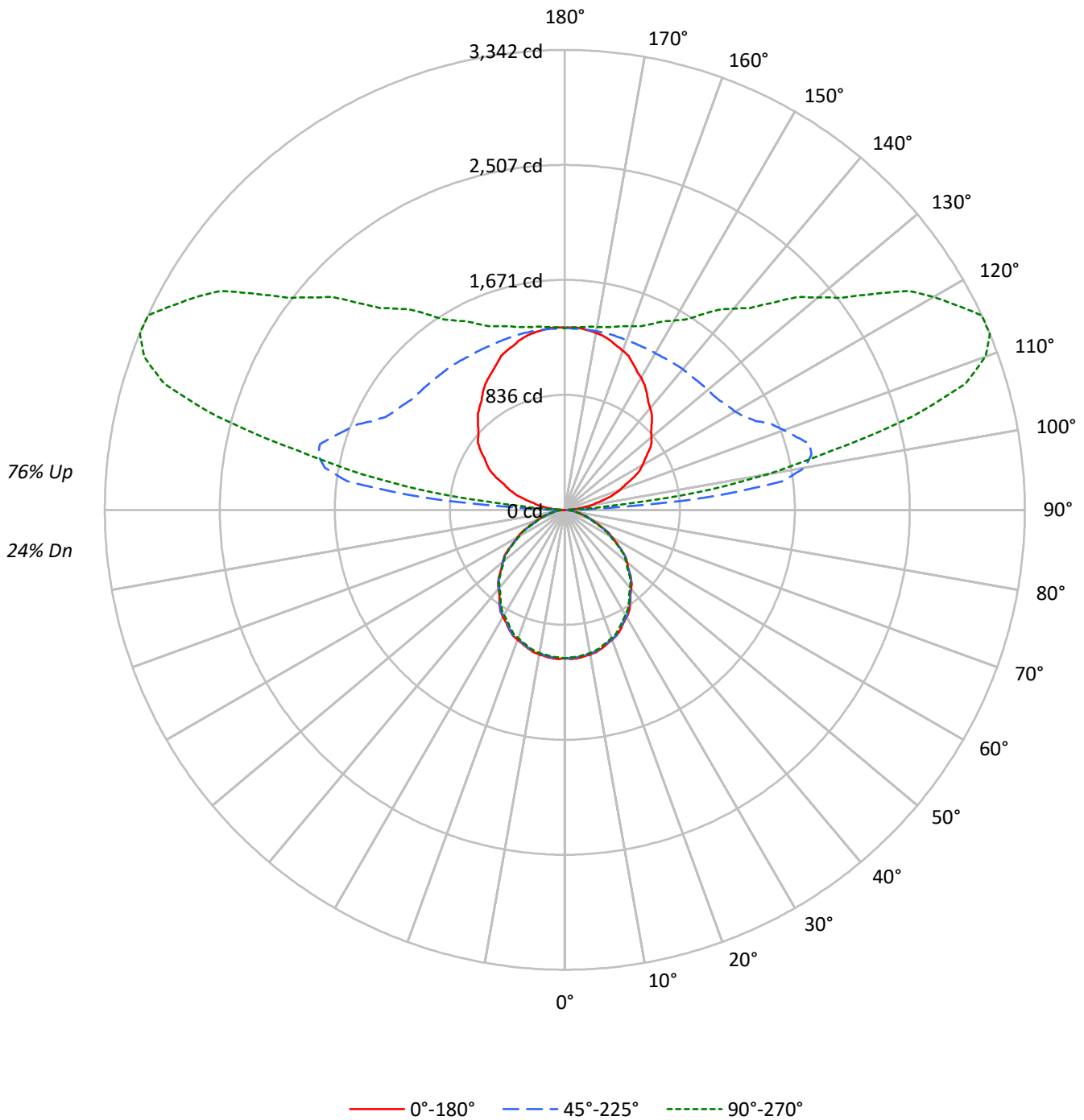
Lumens per Lamp: N/A
Luminaire Lumens: 11291.6 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24				24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21				21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18				18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15				15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13				13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11				11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10				10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9				9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8				8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7				7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				6

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	0.9
10°-20°	291.2	2.6
20°-30°	436.1	3.9
30°-40°	511.5	4.5
40°-50°	513.1	4.5
50°-60°	437.7	3.9
60°-70°	285.5	2.5
70°-80°	143.2	1.3
80°-90°	42.4	0.4
90°-100°	614.8	5.4
100°-110°	1662.2	14.7
110°-120°	1747.6	15.5
120°-130°	1419.5	12.6
130°-140°	1113.5	9.9
140°-150°	854.6	7.6
150°-160°	614.6	5.4
160°-170°	375.5	3.3
170°-180°	126.6	1.1
0°-30°	829.2	7.3
0°-40°	1340.7	11.9
0°-60°	2291.6	20.3
0°-90°	2762.7	24.5
90°-120°	4024.6	35.6
90°-150°	7412.3	65.6
90°-180°	8529.0	75.5
0°-180°	11291.6	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	18	20	18	8
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	

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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	13.0	15.8	16.1	16.6
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)