

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: P564339

Luminaire Tested: **SQ4-PR1-125U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564339
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

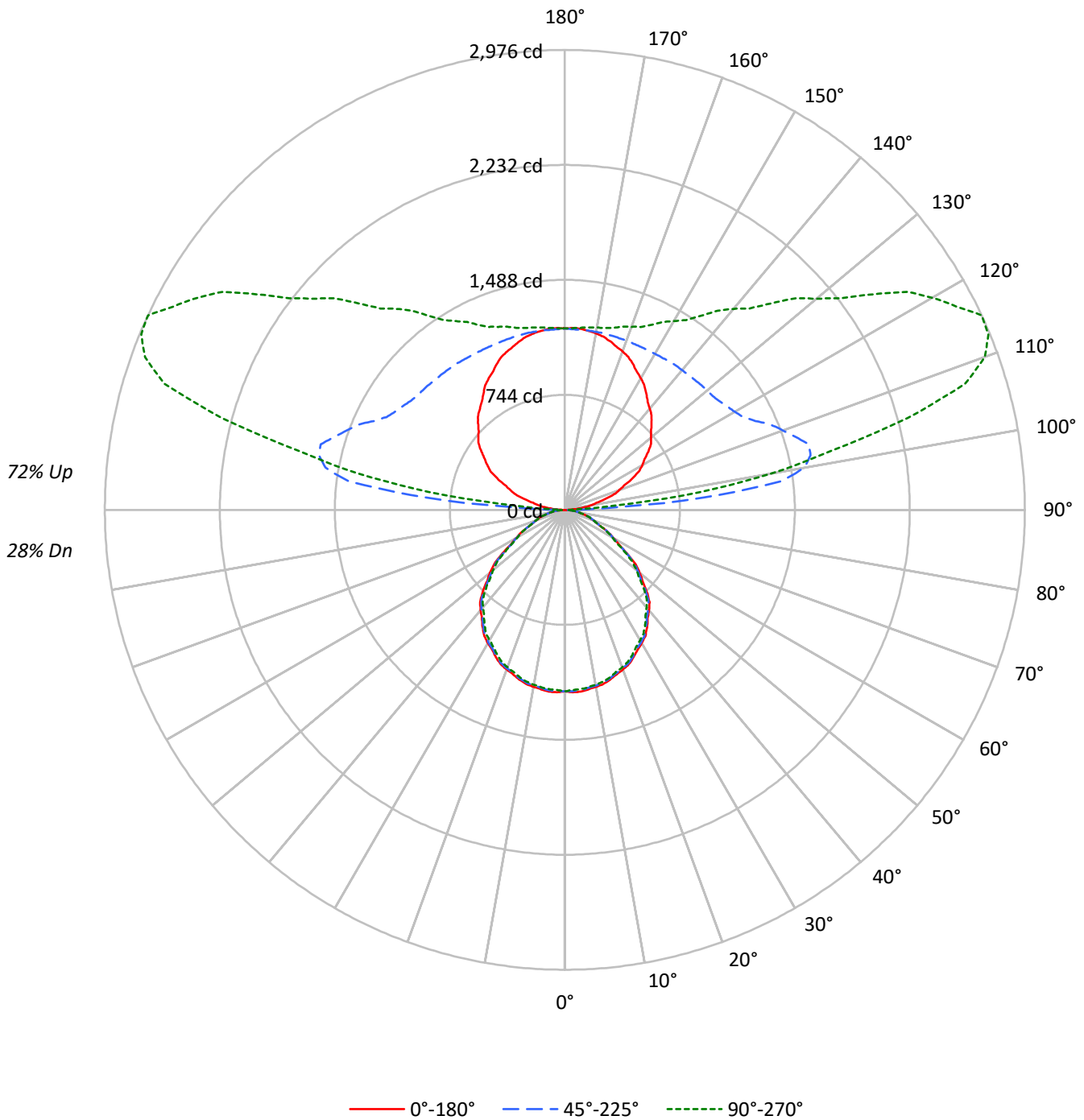
Lumens per Lamp: N/A
Luminaire Lumens: 10513.1 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7233	7195
10°	7266	7215	7177
15°	7234	7189	7150
20°	7197	7151	7098
25°	7146	7099	7016
30°	7070	7019	6918
35°	6965	6904	6806
40°	6806	6733	6611
45°	6529	6414	6283
50°	6040	5894	5779
55°	5272	5153	5044
60°	4442	4405	4318
65°	3842	3857	3828
70°	3528	3548	3548
75°	3389	3389	3413
80°	3188	3223	3188
85°	2569	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	1.1
10°-20°	317.8	3.0
20°-30°	479.3	4.6
30°-40°	571.1	5.4
40°-50°	563.0	5.4
50°-60°	430.3	4.1
60°-70°	266.3	2.5
70°-80°	151.2	1.4
80°-90°	48.8	0.5
90°-100°	548.9	5.2
100°-110°	1478.5	14.1
110°-120°	1551.7	14.8
120°-130°	1259.2	12.0
130°-140°	987.5	9.4
140°-150°	758.2	7.2
150°-160°	545.1	5.2
160°-170°	333.0	3.2
170°-180°	112.3	1.1
0°-30°	908.1	8.6
0°-40°	1479.1	14.1
0°-60°	2472.4	23.5
0°-90°	2938.7	28.0
90°-120°	3579.1	34.0
90°-150°	6584.0	62.6
90°-180°	7574.0	72.0
0°-180°	10513.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1180	1168	1171	1167	1165	112
15°	1136	1124	1129	1125	1123	321
25°	1053	1040	1046	1035	1034	485
35°	928	917	920	907	906	579
45°	751	741	737	724	722	575
55°	492	484	480	472	470	440
65°	264	262	265	263	263	267
75°	143	143	143	144	144	151
85°	36	38	40	40	40	42
90°	3	9	18	19	19	7
95°	84	298	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1181.7	1171.4	1174.4	1171.9	1166.3
5°	1180.5	1167.6	1171.4	1167.3	1165.3
7.5°	1171.4	1158.7	1162.5	1158.4	1157.2
10°	1163.3	1151.4	1155.2	1151.1	1149.1
12.5°	1154.4	1141.7	1146.3	1141.4	1139.4
15°	1136.0	1124.1	1128.9	1124.8	1122.8
17.5°	1115.8	1103.1	1107.9	1103.2	1100.6
20°	1099.6	1087.7	1092.5	1085.4	1084.4
22.5°	1081.8	1069.9	1074.7	1065.2	1065.0
25°	1053.0	1040.2	1046.0	1034.8	1033.8
27.5°	1018.9	1007.0	1011.8	1000.4	999.2
30°	995.4	983.5	988.3	976.1	974.1
32.5°	968.7	957.6	961.6	949.4	948.2
35°	927.6	916.7	919.5	907.4	906.4
37.5°	880.9	871.0	872.6	859.2	858.2
40°	847.7	837.8	838.6	824.4	823.4
42.5°	811.3	801.4	800.6	786.4	785.4
45°	750.6	740.7	737.4	724.2	722.3
47.5°	681.4	671.5	665.4	654.7	653.3
50°	631.2	621.3	616.0	606.9	603.9
52.5°	577.0	567.1	562.6	554.3	551.3
55°	491.6	483.7	480.5	472.4	470.4
57.5°	410.5	405.2	404.2	396.3	395.5
60°	361.1	358.2	358.1	351.0	351.0
62.5°	319.1	316.9	318.4	313.8	313.0
65°	264.0	262.0	265.0	263.0	263.0
67.5°	220.5	220.5	222.3	221.5	221.5
70°	196.2	196.2	197.3	197.3	197.3
72.5°	174.4	173.6	176.2	176.2	175.4
75°	142.6	142.6	142.6	143.6	143.6
77.5°	111.1	111.3	112.1	111.9	111.1
80°	90.0	91.0	91.0	90.0	90.0
82.5°	69.0	70.0	70.0	69.8	69.0
85°	36.4	38.4	40.5	40.5	40.5
87.5°	11.1	15.5	19.8	20.1	19.3
90°	3.0	8.8	17.9	19.4	19.4
92.5°	36.5	128.8	254.7	122.6	85.2
95°	83.7	298.5	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.2	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.3	2295.8
107.5°	334.5	470.1	1565.5	2677.2	2716.1
110°	375.2	503.8	1502.1	2748.9	2890.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.0
115°	482.8	590.9	1361.6	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.8	1269.0	2351.1	2745.7
122.5°	613.4	710.2	1246.3	2231.5	2624.9
125°	659.1	757.1	1222.6	2066.5	2431.8
127.5°	703.1	799.5	1207.7	1920.9	2247.1
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	851.0	1195.7	1764.0	2027.1
135°	793.7	885.7	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.3	1697.9
142.5°	881.3	960.2	1178.4	1487.0	1625.0
145°	917.7	989.3	1173.3	1425.3	1530.5
147.5°	957.2	1019.4	1168.2	1373.4	1456.1
150°	983.5	1037.6	1165.8	1340.8	1409.5
152.5°	1007.4	1054.5	1164.6	1314.2	1370.0
155°	1041.8	1079.8	1162.9	1278.9	1319.8
157.5°	1072.0	1101.5	1163.2	1254.1	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.8	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.3	1213.8	1219.7
167.5°	1147.9	1155.5	1168.8	1203.3	1205.6
170°	1159.9	1162.8	1168.8	1197.2	1197.2
172.5°	1167.0	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.8	1185.2	1182.3
177.5°	1178.1	1175.8	1169.7	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)