

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: P562105

Luminaire Tested: **SQ4-PR1-150U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562105
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-150U-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

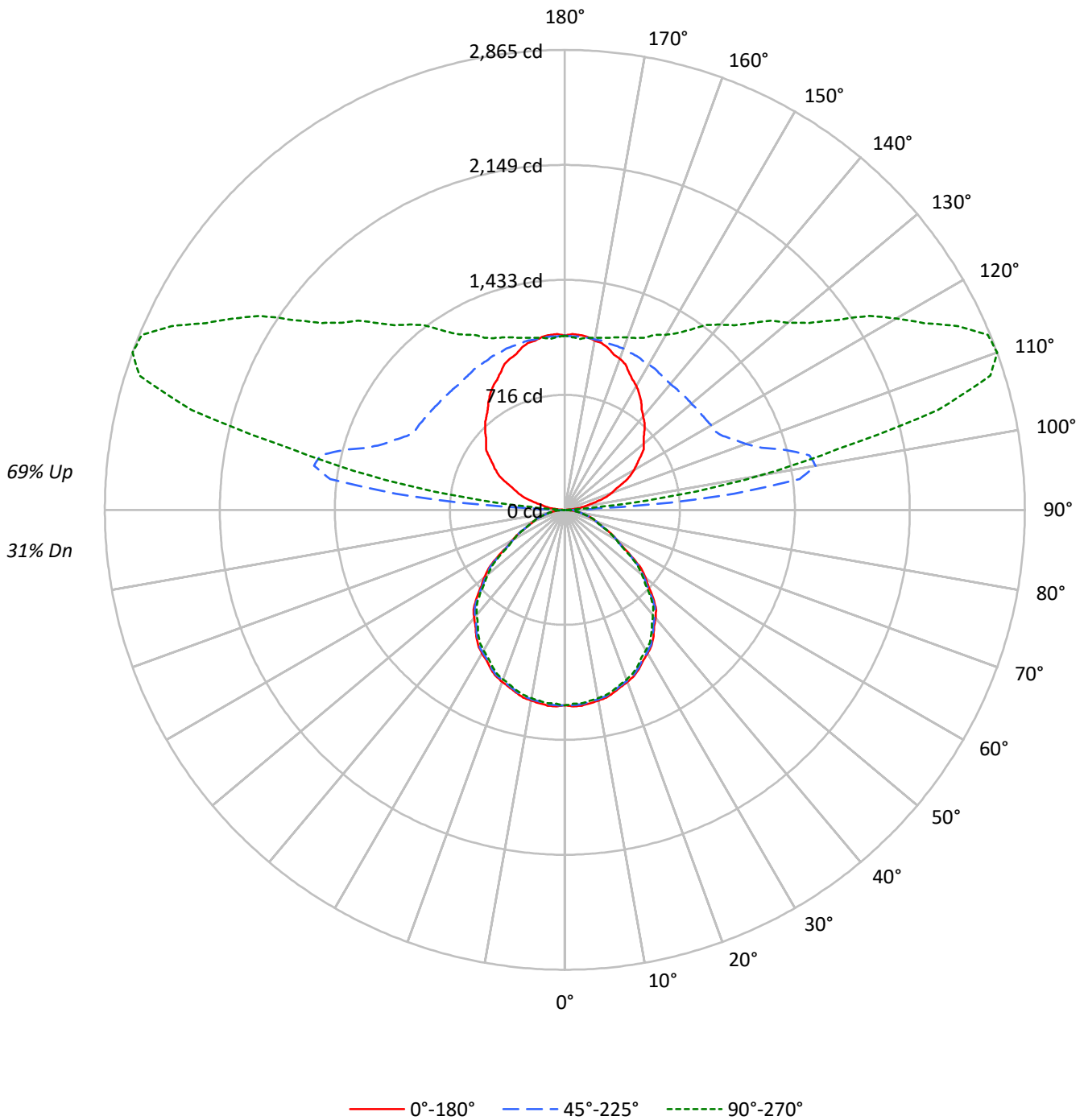
Lumens per Lamp: N/A
Luminaire Lumens: 9784.5 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 83.1
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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	52	50	46	42	38	35	33	27	26	24	19
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	65	54	47	41	59	49	43	37	40	35	31	30	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	18	16	14	11
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11238	11238	11238
5°	11339	11252	11193
10°	11303	11224	11165
15°	11253	11183	11123
20°	11197	11124	11042
25°	11118	11043	10915
30°	10998	10920	10763
35°	10835	10741	10587
40°	10589	10475	10286
45°	10156	9979	9774
50°	9396	9170	8990
55°	8202	8015	7846
60°	6910	6853	6717
65°	5977	6001	5956
70°	5490	5519	5519
75°	5272	5272	5311
80°	4962	5016	4962
85°	4001	4446	4446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	1.2
10°-20°	329.5	3.4
20°-30°	497.1	5.1
30°-40°	592.2	6.1
40°-50°	583.9	6.0
50°-60°	446.2	4.6
60°-70°	276.2	2.8
70°-80°	156.8	1.6
80°-90°	47.7	0.5
90°-100°	494.4	5.1
100°-110°	1406.7	14.4
110°-120°	1347.8	13.8
120°-130°	1066.7	10.9
130°-140°	856.2	8.8
140°-150°	670.3	6.9
150°-160°	490.5	5.0
160°-170°	303.8	3.1
170°-180°	103.1	1.1
0°-30°	941.8	9.6
0°-40°	1534.0	15.7
0°-60°	2564.2	26.2
0°-90°	3044.9	31.1
90°-120°	3249.0	33.2
90°-150°	5842.2	59.7
90°-180°	6740.0	68.9
0°-180°	9784.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1224	1211	1215	1211	1209	116
15°	1178	1166	1171	1167	1164	332
25°	1092	1079	1085	1073	1072	503
35°	962	951	954	941	940	600
45°	778	768	765	751	749	596
55°	510	502	498	490	488	457
65°	274	272	275	273	273	277
75°	148	148	148	149	149	156
85°	38	40	42	42	42	44
90°	0	0	0	0	0	4
95°	54	213	957	331	204	61
105°	219	332	1434	2532	2407	231
115°	406	491	1087	2303	2704	400
125°	573	636	1038	1722	2059	513
135°	701	760	1025	1454	1644	541
145°	827	870	1033	1259	1372	517
155°	945	967	1058	1138	1184	437
165°	1044	1048	1070	1094	1110	294
175°	1093	1087	1083	1076	1068	104
180°	1085	1085	1085	1085	1085	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.0	1218.0	1218.0	1218.0	1218.0
2.5°	1225.6	1214.9	1218.0	1215.4	1209.6
5°	1224.3	1211.0	1214.9	1210.6	1208.6
7.5°	1214.9	1201.7	1205.6	1201.4	1200.2
10°	1206.5	1194.2	1198.1	1193.8	1191.8
12.5°	1197.2	1184.1	1188.9	1183.8	1181.7
15°	1178.1	1165.8	1170.8	1166.6	1164.5
17.5°	1157.2	1144.0	1149.0	1144.1	1141.4
20°	1140.4	1128.1	1133.0	1125.7	1124.6
22.5°	1121.9	1109.6	1114.6	1104.7	1104.5
25°	1092.1	1078.8	1084.8	1073.2	1072.2
27.5°	1056.7	1044.4	1049.3	1037.5	1036.3
30°	1032.3	1020.0	1025.0	1012.3	1010.3
32.5°	1004.6	993.1	997.3	984.7	983.4
35°	962.0	950.7	953.6	941.0	940.0
37.5°	913.6	903.3	905.0	891.1	890.1
40°	879.2	868.9	869.7	855.0	854.0
42.5°	841.4	831.1	830.3	815.6	814.5
45°	778.4	768.2	764.8	751.1	749.1
47.5°	706.7	696.4	690.1	679.0	677.5
50°	654.6	644.4	638.9	629.4	626.3
52.5°	598.4	588.2	583.5	574.8	571.8
55°	509.9	501.7	498.3	489.9	487.8
57.5°	425.7	420.2	419.2	411.0	410.2
60°	374.5	371.5	371.4	364.0	364.0
62.5°	330.9	328.6	330.3	325.4	324.6
65°	273.8	271.8	274.9	272.8	272.8
67.5°	228.7	228.7	230.6	229.8	229.8
70°	203.5	203.5	204.6	204.6	204.6
72.5°	180.9	180.0	182.8	182.7	181.9
75°	147.9	147.9	147.9	149.0	149.0
77.5°	115.2	115.4	116.2	116.0	115.2
80°	93.4	94.4	94.4	93.4	93.4
82.5°	71.5	72.6	72.6	72.4	71.5
85°	37.8	39.8	42.0	42.0	42.0
87.5°	10.9	14.2	16.8	16.8	15.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	87.5	203.0	59.1	44.6
95°	53.6	213.0	957.1	331.3	204.2
97.5°	98.6	249.5	1474.0	1054.7	722.8
100°	129.9	271.1	1586.2	1606.7	1237.6
102.5°	164.6	294.5	1561.5	2056.6	1734.3
105°	218.6	331.6	1433.6	2532.2	2407.2
107.5°	273.5	374.8	1284.2	2666.3	2777.6
110°	311.5	406.3	1198.4	2615.0	2865.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	347.8	437.7	1140.7	2493.7	2850.2
115°	406.4	491.1	1087.0	2302.8	2704.2
117.5°	457.9	537.4	1055.3	2094.2	2519.4
120°	499.2	565.7	1052.0	1975.0	2382.4
122.5°	532.2	598.7	1043.7	1870.4	2248.8
125°	573.4	636.0	1037.5	1721.8	2058.6
127.5°	618.4	676.9	1034.2	1632.9	1910.5
130°	641.5	700.0	1029.3	1571.1	1813.1
132.5°	666.3	723.1	1029.3	1522.8	1745.5
135°	701.3	759.8	1025.2	1454.4	1644.0
137.5°	734.3	791.2	1024.7	1396.5	1560.2
140°	759.1	817.6	1023.1	1348.5	1505.8
142.5°	787.1	835.9	1028.0	1310.1	1451.3
145°	827.1	869.5	1033.4	1258.7	1371.7
147.5°	861.4	902.5	1042.5	1206.8	1304.4
150°	891.1	919.3	1045.8	1189.7	1258.2
152.5°	914.2	944.0	1049.1	1166.5	1230.2
155°	944.7	966.9	1058.2	1137.6	1184.0
157.5°	982.7	996.0	1060.2	1124.5	1157.6
160°	1002.5	1012.6	1068.5	1114.5	1142.7
162.5°	1014.0	1025.7	1070.1	1106.1	1127.9
165°	1043.7	1047.8	1070.5	1093.6	1109.7
167.5°	1063.9	1060.3	1080.0	1090.5	1096.9
170°	1070.5	1068.5	1076.7	1079.0	1087.0
172.5°	1085.4	1078.5	1081.7	1075.6	1082.1
175°	1093.2	1087.2	1082.9	1076.5	1068.5
177.5°	1096.5	1086.8	1081.7	1075.1	1076.7
180°	1085.0	1085.0	1085.0	1085.0	1085.0

(END OF REPORT)