

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: P561897

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561897
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-PR1-075U-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 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

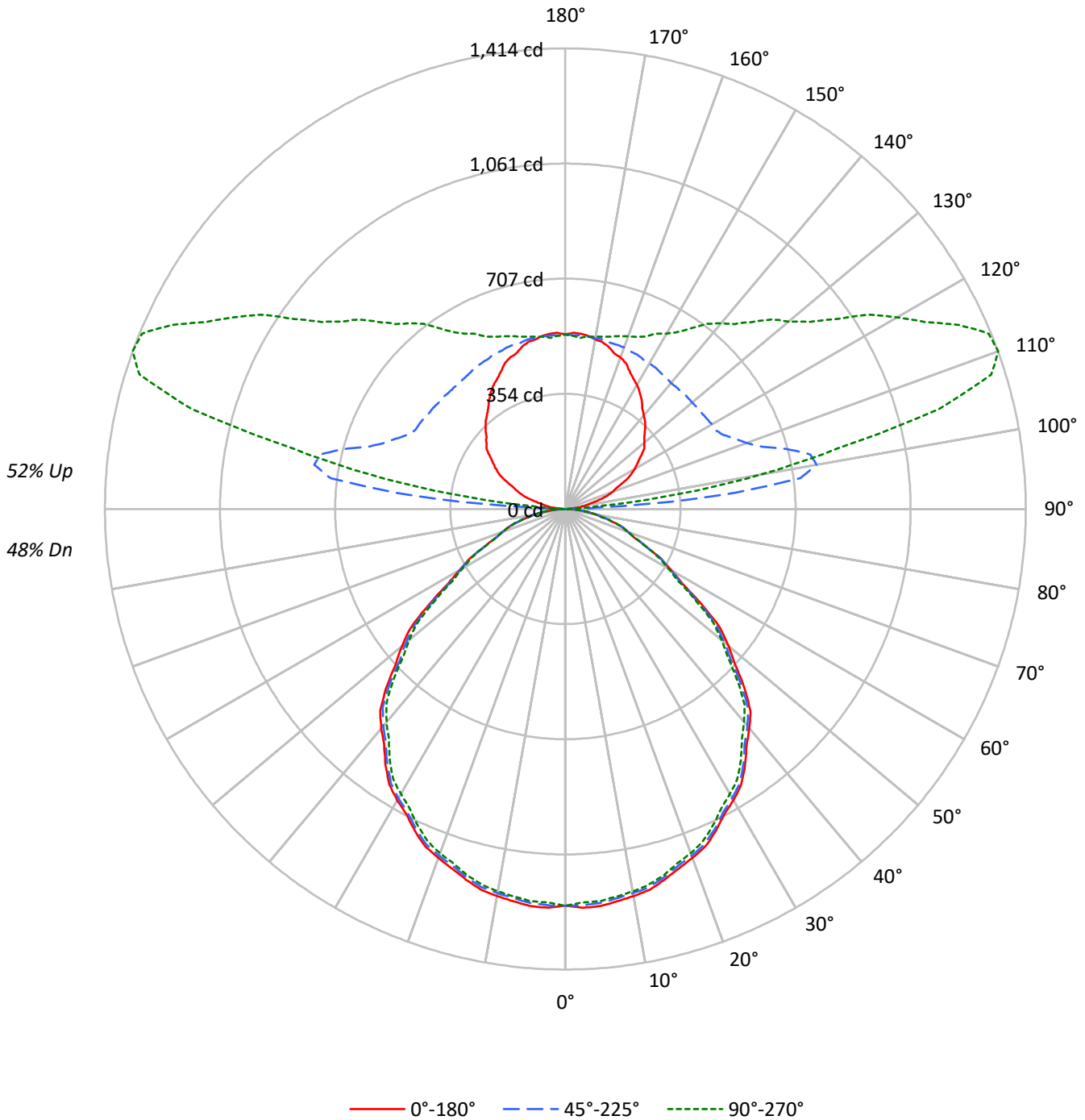
Lumens per Lamp: N/A
Luminaire Lumens: 6372.1 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.6
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48		
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41		
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35		
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30		
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26		
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22		
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20		
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18		
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16		
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14		
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13		

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	1.8
10°-20°	329.5	5.2
20°-30°	497.1	7.8
30°-40°	592.2	9.3
40°-50°	583.9	9.2
50°-60°	446.2	7.0
60°-70°	276.2	4.3
70°-80°	156.8	2.5
80°-90°	47.7	0.7
90°-100°	244.1	3.8
100°-110°	694.5	10.9
110°-120°	665.4	10.4
120°-130°	526.6	8.3
130°-140°	422.7	6.6
140°-150°	330.9	5.2
150°-160°	242.1	3.8
160°-170°	150.0	2.4
170°-180°	50.9	0.8
0°-30°	941.8	14.8
0°-40°	1534.0	24.1
0°-60°	2564.2	40.2
0°-90°	3044.9	47.8
90°-120°	1603.9	25.2
90°-150°	2884.1	45.3
90°-180°	3327.0	52.2
0°-180°	6372.1	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	3
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	



TEST NUMBER: P561897

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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°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)