

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: P561900

Luminaire Tested: **SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561900
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6639.7 lumens
Efficiency: N/A
Efficacy: 119.9 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

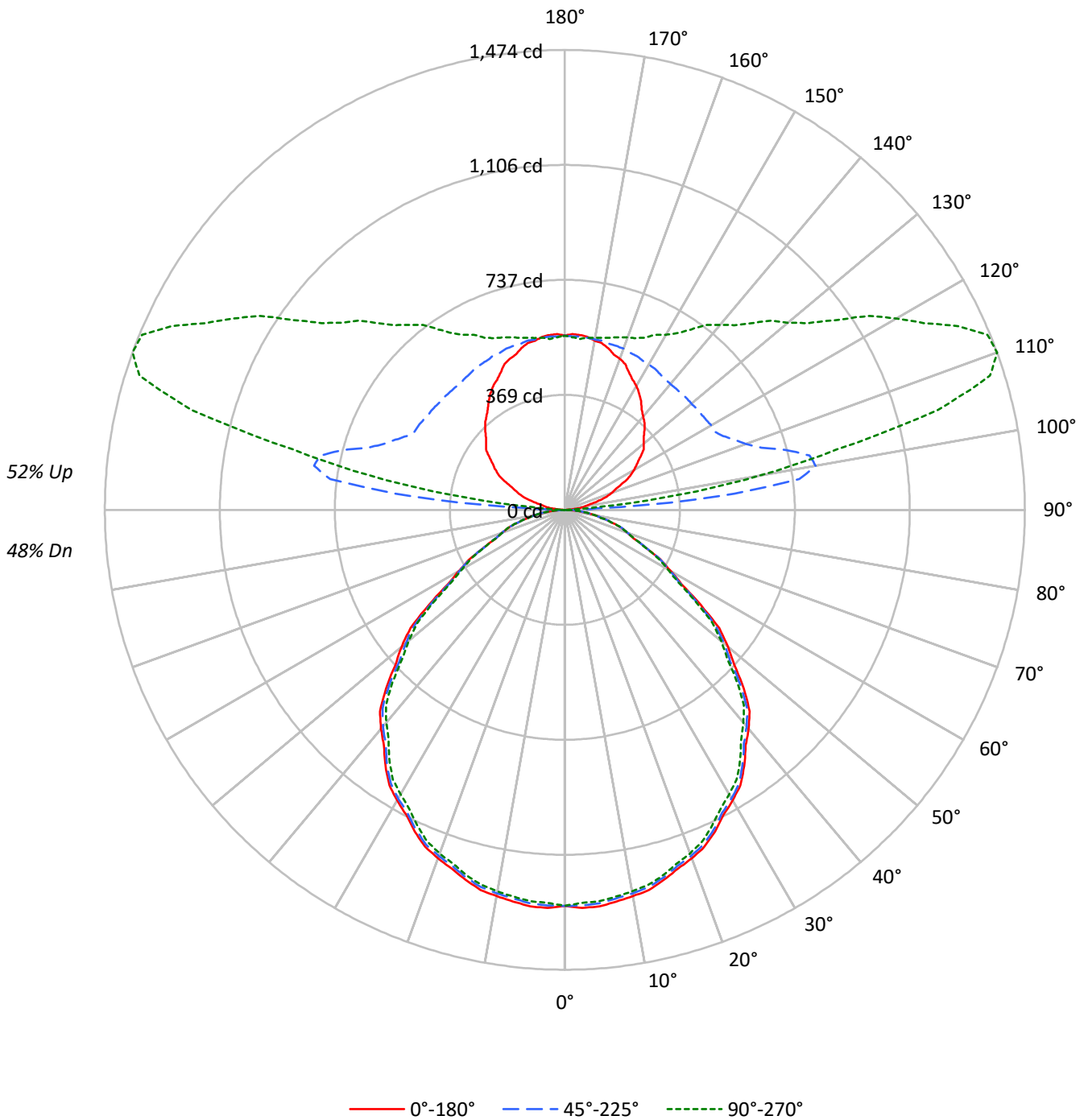
Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	11710	11710	11710
5°	11815	11724	11663
10°	11778	11696	11635
15°	11726	11653	11590
20°	11667	11592	11506
25°	11585	11506	11373
30°	11460	11378	11215
35°	11290	11192	11032
40°	11033	10914	10717
45°	10583	10398	10184
50°	9790	9555	9367
55°	8546	8353	8176
60°	7202	7141	6999
65°	6228	6252	6204
70°	5722	5751	5751
75°	5493	5493	5532
80°	5170	5228	5170
85°	4171	4626	4626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	1.8
10°-20°	343.4	5.2
20°-30°	517.9	7.8
30°-40°	617.1	9.3
40°-50°	608.4	9.2
50°-60°	465.0	7.0
60°-70°	287.8	4.3
70°-80°	163.4	2.5
80°-90°	49.7	0.7
90°-100°	254.3	3.8
100°-110°	723.6	10.9
110°-120°	693.3	10.4
120°-130°	548.7	8.3
130°-140°	440.5	6.6
140°-150°	344.8	5.2
150°-160°	252.3	3.8
160°-170°	156.3	2.4
170°-180°	53.0	0.8
0°-30°	981.4	14.8
0°-40°	1598.5	24.1
0°-60°	2671.9	40.2
0°-90°	3172.8	47.8
90°-120°	1671.3	25.2
90°-150°	3005.3	45.3
90°-180°	3467.0	52.2
0°-180°	6639.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1276	1262	1266	1262	1259	121
15°	1228	1215	1220	1216	1213	346
25°	1138	1124	1130	1118	1117	524
35°	1002	991	994	981	980	626
45°	811	800	797	783	780	621
55°	531	523	519	510	508	476
65°	285	283	286	284	284	289
75°	154	154	154	155	155	163
85°	39	42	44	44	44	46
90°	0	0	0	0	0	3
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1277.1	1265.9	1269.2	1266.4	1260.4
5°	1275.7	1261.8	1265.9	1261.5	1259.3
7.5°	1265.9	1252.2	1256.3	1251.9	1250.6
10°	1257.2	1244.3	1248.4	1244.0	1241.9
12.5°	1247.5	1233.9	1238.8	1233.5	1231.4
15°	1227.6	1214.8	1220.0	1215.6	1213.4
17.5°	1205.8	1192.1	1197.3	1192.2	1189.4
20°	1188.3	1175.5	1180.6	1173.0	1171.9
22.5°	1169.0	1156.2	1161.4	1151.1	1150.9
25°	1138.0	1124.1	1130.3	1118.3	1117.2
27.5°	1101.1	1088.2	1093.4	1081.1	1079.8
30°	1075.7	1062.9	1068.0	1054.9	1052.7
32.5°	1046.8	1034.9	1039.2	1026.0	1024.7
35°	1002.4	990.7	993.7	980.6	979.5
37.5°	951.9	941.3	943.0	928.5	927.5
40°	916.1	905.4	906.2	890.9	889.8
42.5°	876.7	866.0	865.1	849.8	848.7
45°	811.1	800.5	796.9	782.7	780.5
47.5°	736.4	725.7	719.1	707.5	706.0
50°	682.1	671.5	665.7	655.8	652.6
52.5°	623.5	612.9	608.0	599.0	595.8
55°	531.3	522.7	519.3	510.5	508.3
57.5°	443.6	437.8	436.8	428.3	427.4
60°	390.3	387.1	387.0	379.3	379.3
62.5°	344.8	342.4	344.1	339.1	338.2
65°	285.3	283.2	286.4	284.2	284.2
67.5°	238.3	238.3	240.3	239.4	239.4
70°	212.1	212.1	213.2	213.2	213.2
72.5°	188.5	187.6	190.4	190.4	189.6
75°	154.1	154.1	154.1	155.2	155.2
77.5°	120.0	120.2	121.1	120.9	120.0
80°	97.3	98.4	98.4	97.3	97.3
82.5°	74.6	75.6	75.6	75.4	74.6
85°	39.4	41.5	43.7	43.7	43.7
87.5°	11.4	14.8	17.5	17.5	16.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)