

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: P561952

Luminaire Tested: **SQ4-PR1-0U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561952
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-075D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3172.8 lumens
Efficiency: N/A
Efficacy: 99.8 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: Direct

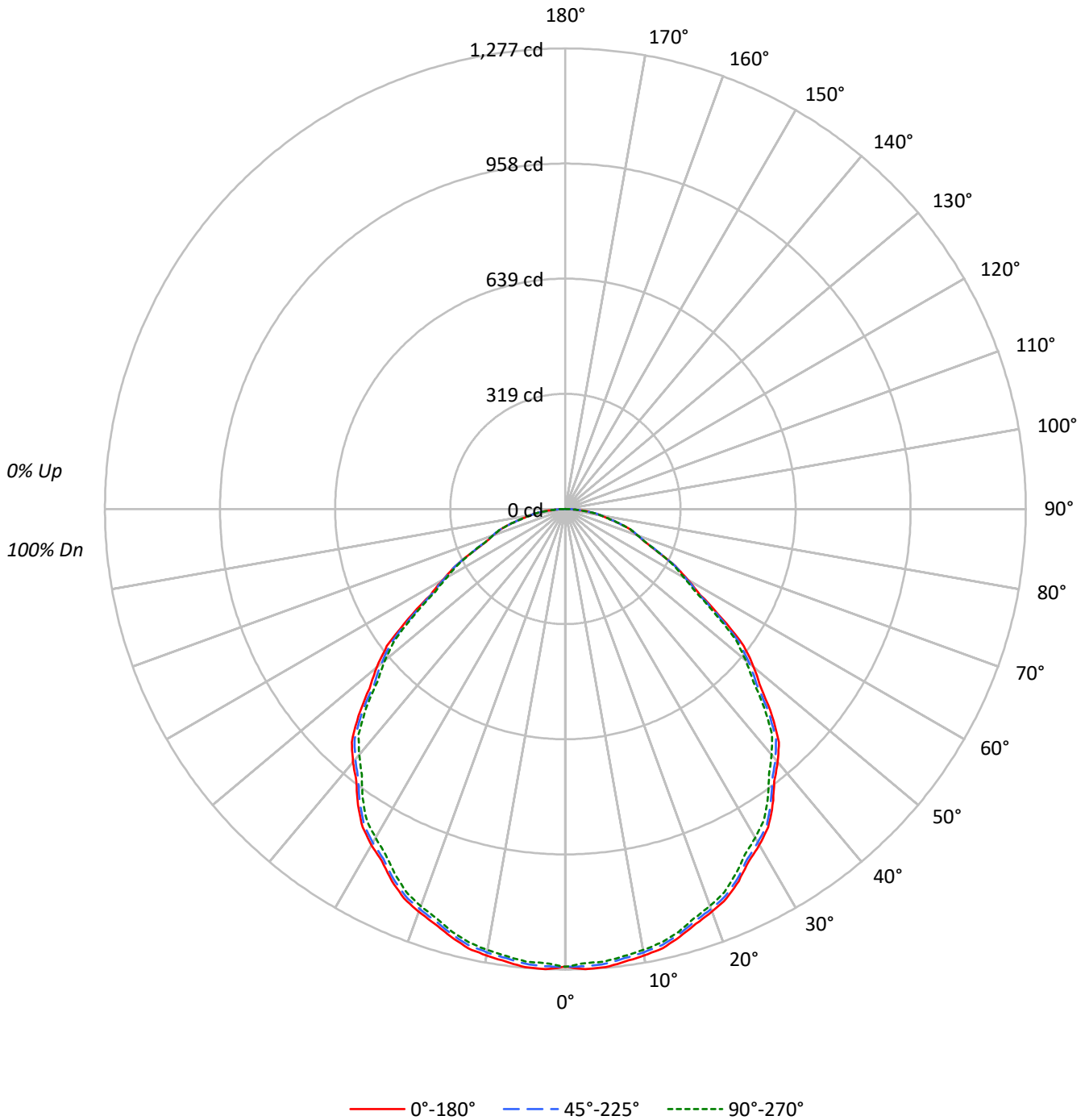
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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	3.8
10°-20°	343.4	10.8
20°-30°	517.9	16.3
30°-40°	617.1	19.5
40°-50°	608.4	19.2
50°-60°	465.0	14.7
60°-70°	287.8	9.1
70°-80°	163.4	5.2
80°-90°	49.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	981.4	30.9
0°-40°	1598.5	50.4
0°-60°	2671.9	84.2
0°-90°	3172.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3172.8	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	47
90°	0	0	0	0	0	



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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

(END OF REPORT)