

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: P561953

Luminaire Tested: **SQ4-PR1-0U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561953
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3202.9 lumens
Efficiency: N/A
Efficacy: 101.0 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

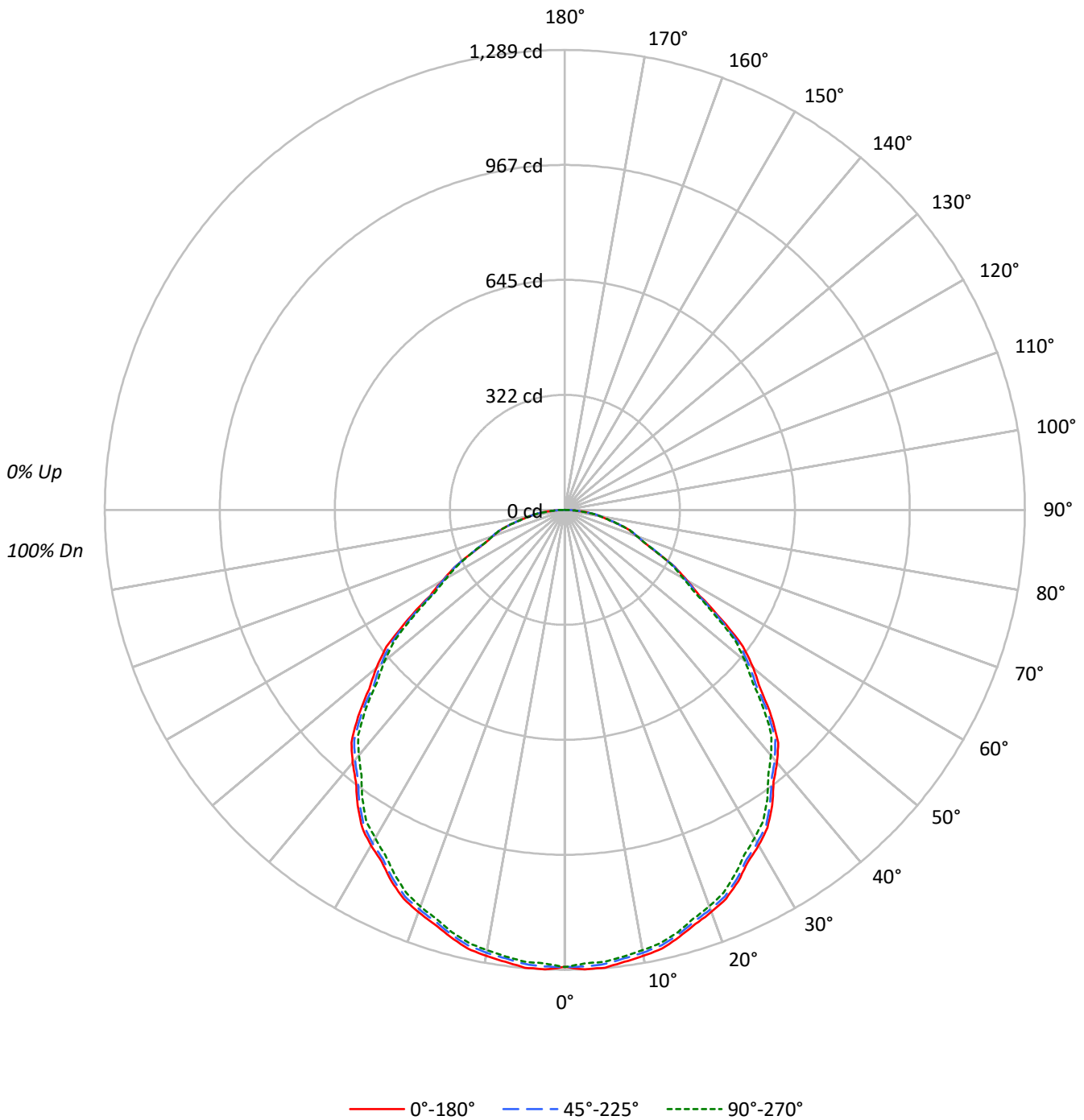
Input Watts (W): 31.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72			72	
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62			62	
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54			54	
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47			47	
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41			41	
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37			37	
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33			33	
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30			30	
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27			27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11821	11821	11821
5°	11927	11835	11774
10°	11890	11806	11744
15°	11837	11764	11700
20°	11778	11701	11615
25°	11695	11616	11481
30°	11569	11487	11321
35°	11398	11298	11137
40°	11138	11018	10819
45°	10684	10497	10280
50°	9884	9647	9456
55°	8627	8432	8253
60°	7270	7209	7065
65°	6287	6311	6263
70°	5775	5805	5805
75°	5547	5547	5586
80°	5218	5276	5218
85°	4203	4668	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	3.8
10°-20°	346.6	10.8
20°-30°	522.9	16.3
30°-40°	623.0	19.5
40°-50°	614.2	19.2
50°-60°	469.4	14.7
60°-70°	290.5	9.1
70°-80°	165.0	5.2
80°-90°	50.2	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°	990.7	30.9
0°-40°	1613.6	50.4
0°-60°	2697.3	84.2
0°-90°	3202.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3202.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1288	1274	1278	1273	1271	122
15°	1239	1226	1232	1227	1225	350
25°	1149	1135	1141	1129	1128	529
35°	1012	1000	1003	990	989	632
45°	819	808	804	790	788	627
55°	536	528	524	515	513	481
65°	288	286	289	287	287	292
75°	156	156	156	157	157	164
85°	40	42	44	44	44	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1289.2	1277.9	1281.2	1278.4	1272.4
5°	1287.8	1273.8	1277.9	1273.4	1271.3
7.5°	1277.9	1264.1	1268.2	1263.8	1262.5
10°	1269.1	1256.1	1260.2	1255.8	1253.6
12.5°	1259.4	1245.6	1250.5	1245.2	1243.0
15°	1239.3	1226.3	1231.6	1227.1	1224.9
17.5°	1217.2	1203.4	1208.6	1203.5	1200.7
20°	1199.6	1186.6	1191.8	1184.1	1183.0
22.5°	1180.1	1167.2	1172.4	1162.0	1161.8
25°	1148.8	1134.8	1141.1	1128.9	1127.8
27.5°	1111.5	1098.5	1103.8	1091.4	1090.1
30°	1085.9	1072.9	1078.2	1064.9	1062.7
32.5°	1056.8	1044.7	1049.0	1035.8	1034.5
35°	1012.0	1000.1	1003.1	989.9	988.8
37.5°	961.0	950.2	951.9	937.3	936.2
40°	924.8	914.0	914.8	899.4	898.3
42.5°	885.0	874.3	873.3	857.9	856.8
45°	818.8	808.0	804.5	790.1	787.9
47.5°	743.3	732.6	725.9	714.2	712.7
50°	688.6	677.8	672.1	662.1	658.8
52.5°	629.5	618.7	613.8	604.7	601.4
55°	536.3	527.7	524.2	515.3	513.1
57.5°	447.8	442.0	441.0	432.3	431.5
60°	394.0	390.7	390.7	382.9	382.9
62.5°	348.1	345.7	347.4	342.3	341.4
65°	288.0	285.9	289.1	286.9	286.9
67.5°	240.6	240.6	242.6	241.7	241.7
70°	214.1	214.1	215.2	215.2	215.2
72.5°	190.3	189.4	192.2	192.2	191.4
75°	155.6	155.6	155.6	156.7	156.7
77.5°	121.2	121.4	122.3	122.0	121.2
80°	98.2	99.3	99.3	98.2	98.2
82.5°	75.3	76.3	76.4	76.1	75.3
85°	39.7	41.9	44.1	44.1	44.1
87.5°	11.5	14.9	17.7	17.6	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)