

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: P564586

Luminaire Tested: **SQ4-PW1-025U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564586
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

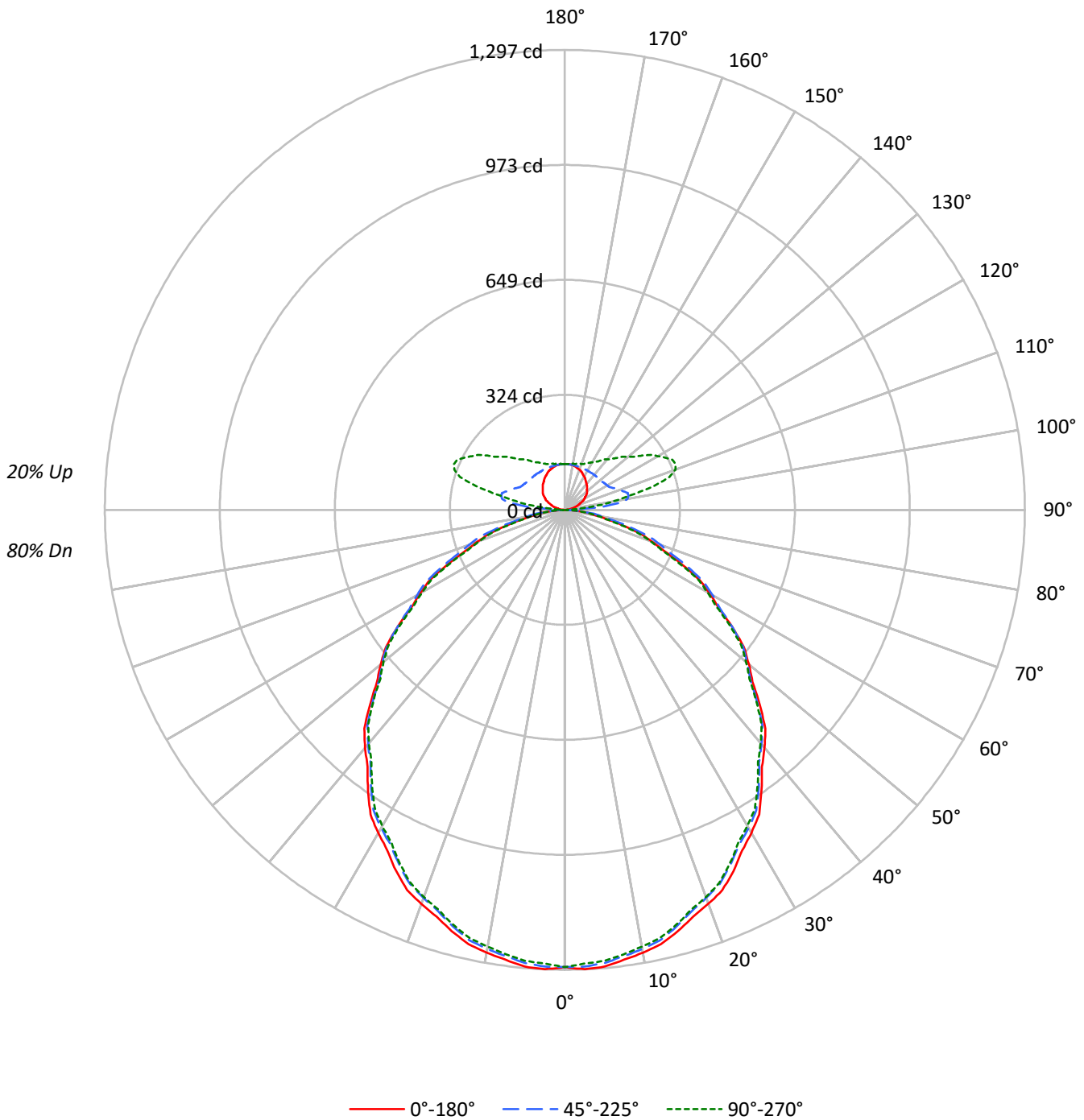
Lumens per Lamp: N/A
Luminaire Lumens: 4120.7 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	100	96	93	100	96	92	89	88	85	83	81	79	77	74	72	71	67				
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57				
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48				
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41				
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36				
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32				
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25				
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23				
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11880	11827
10°	11878	11783	11718
15°	11752	11622	11579
20°	11612	11433	11411
25°	11449	11242	11207
30°	11207	11038	10966
35°	10889	10736	10672
40°	10549	10385	10345
45°	10139	10006	9962
50°	9719	9637	9572
55°	9265	9265	9119
60°	8700	8868	8553
65°	7962	8359	7763
70°	7019	7693	6836
75°	5992	6883	5832
80°	4649	5797	4707
85°	3006	4446	3970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	2.9
10°-20°	342.8	8.3
20°-30°	508.5	12.3
30°-40°	595.0	14.4
40°-50°	592.3	14.4
50°-60°	511.5	12.4
60°-70°	368.2	8.9
70°-80°	193.1	4.7
80°-90°	48.6	1.2
90°-100°	63.1	1.5
100°-110°	165.9	4.0
110°-120°	172.0	4.2
120°-130°	138.0	3.3
130°-140°	108.3	2.6
140°-150°	83.1	2.0
150°-160°	59.9	1.5
160°-170°	36.6	0.9
170°-180°	12.4	0.3
0°-30°	972.7	23.6
0°-40°	1567.7	38.0
0°-60°	2671.6	64.8
0°-90°	3281.5	79.6
90°-120°	401.1	9.7
90°-150°	730.4	17.7
90°-180°	839.0	20.4
0°-180°	4120.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1293	1278	1283	1279	1277	122
15°	1230	1215	1217	1214	1212	347
25°	1125	1106	1104	1098	1101	517
35°	967	954	953	944	948	604
45°	777	770	767	765	764	600
55°	576	575	576	568	567	514
65°	365	376	383	368	356	361
75°	168	184	193	180	164	180
85°	28	37	42	40	38	37
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.5	1289.5	1289.5	1289.5	1289.5
2.5°	1296.7	1286.1	1289.5	1286.6	1280.4
5°	1292.9	1278.4	1282.7	1279.2	1277.0
7.5°	1279.7	1266.4	1269.5	1265.8	1264.5
10°	1267.9	1254.6	1257.7	1253.1	1250.8
12.5°	1254.3	1240.0	1243.1	1238.5	1237.2
15°	1230.4	1214.8	1216.8	1214.4	1212.2
17.5°	1202.7	1186.9	1187.2	1183.6	1183.1
20°	1182.7	1166.0	1164.5	1160.0	1162.2
22.5°	1160.9	1143.3	1141.8	1135.5	1138.6
25°	1124.7	1105.9	1104.3	1097.5	1100.9
27.5°	1082.9	1064.3	1064.3	1054.8	1058.4
30°	1052.0	1034.3	1036.1	1024.9	1029.3
32.5°	1019.3	1003.3	1004.3	993.1	997.5
35°	966.8	953.5	953.2	944.2	947.5
37.5°	913.2	901.4	899.6	894.4	895.2
40°	875.9	865.9	862.3	858.9	858.9
42.5°	836.9	827.7	824.1	821.6	820.7
45°	777.1	770.4	766.9	764.6	763.5
47.5°	718.0	711.8	708.7	707.1	706.0
50°	677.1	672.7	671.4	668.0	666.9
52.5°	636.2	633.6	632.4	628.0	626.9
55°	576.0	574.9	576.0	568.0	566.9
57.5°	513.3	515.1	518.7	508.0	505.3
60°	471.5	475.9	480.6	468.0	463.5
62.5°	428.8	435.9	442.4	427.9	421.7
65°	364.7	375.8	382.9	367.8	355.6
67.5°	302.9	316.7	325.2	308.9	295.2
70°	260.2	275.7	285.2	268.9	253.4
72.5°	222.9	240.2	247.9	232.5	217.0
75°	168.1	183.7	193.1	180.3	163.6
77.5°	119.3	134.0	141.8	130.6	116.8
80°	87.5	103.0	109.1	99.7	88.6
82.5°	62.0	74.9	79.1	73.4	65.9
85°	28.4	37.3	42.0	39.7	37.5
87.5°	7.4	14.0	18.6	18.0	18.8
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)