

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: P564102

Luminaire Tested: **SQ4-PR1-075U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564102
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

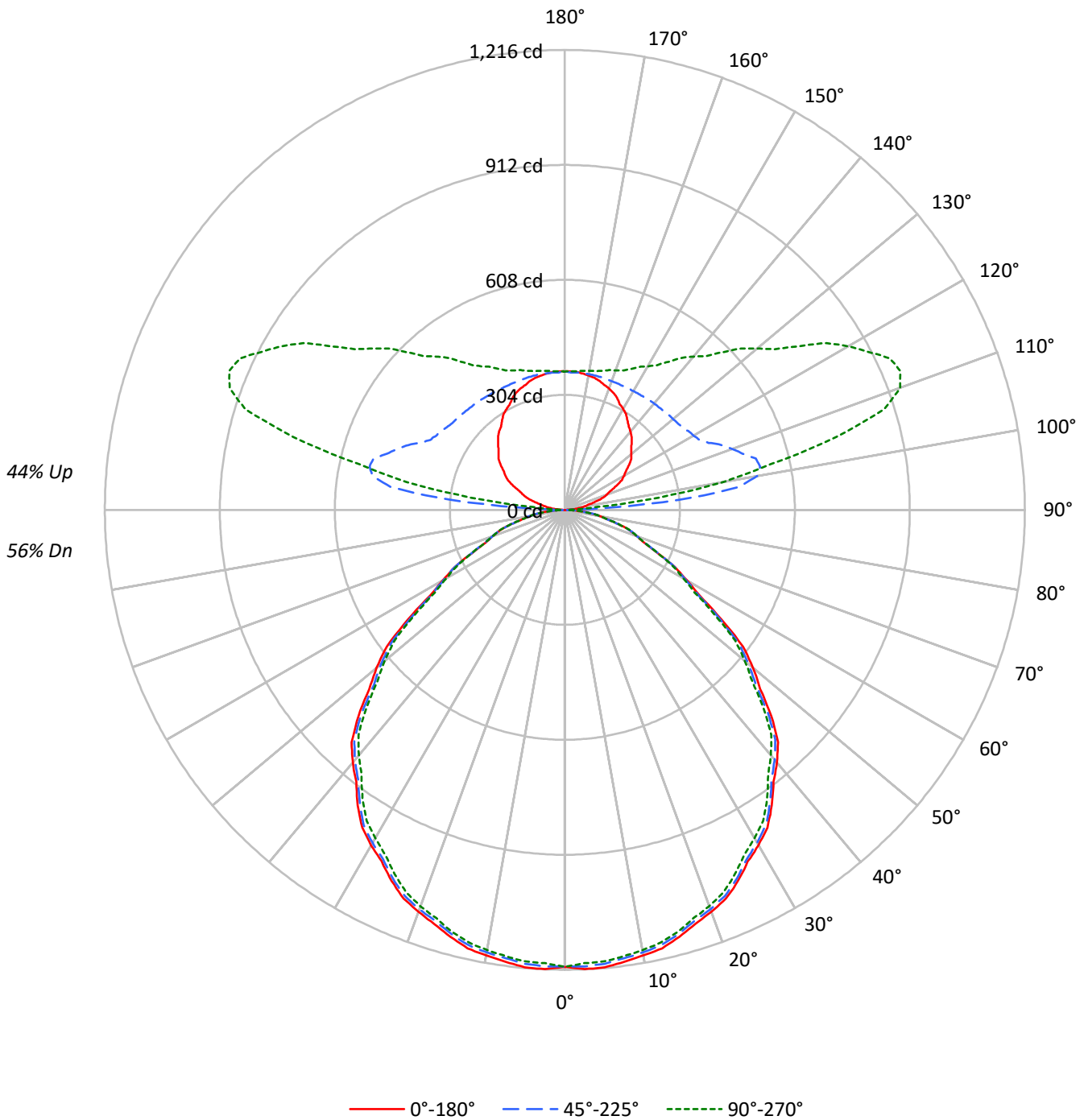
Lumens per Lamp: N/A
Luminaire Lumens: 5403.1 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11245	11159	11101
10°	11209	11132	11074
15°	11160	11091	11031
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10829	10675
35°	10746	10653	10501
40°	10501	10388	10200
45°	10073	9897	9693
50°	9320	9094	8916
55°	8134	7949	7782
60°	6853	6796	6661
65°	5929	5951	5905
70°	5446	5473	5473
75°	5229	5229	5265
80°	4920	4973	4920
85°	3970	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	2.1
10°-20°	326.8	6.0
20°-30°	493.0	9.1
30°-40°	587.4	10.9
40°-50°	579.1	10.7
50°-60°	442.6	8.2
60°-70°	273.9	5.1
70°-80°	155.5	2.9
80°-90°	48.2	0.9
90°-100°	172.5	3.2
100°-110°	474.5	8.8
110°-120°	489.8	9.1
120°-130°	392.4	7.3
130°-140°	308.2	5.7
140°-150°	236.2	4.4
150°-160°	169.8	3.1
160°-170°	103.8	1.9
170°-180°	35.0	0.6
0°-30°	934.0	17.3
0°-40°	1521.4	28.2
0°-60°	2543.1	47.1
0°-90°	3020.7	55.9
90°-120°	1136.8	21.0
90°-150°	2073.6	38.4
90°-180°	2382.0	44.1
0°-180°	5403.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1214	1201	1205	1201	1199	115
15°	1168	1156	1161	1157	1155	330
25°	1083	1070	1076	1064	1063	498
35°	954	943	946	933	932	595
45°	772	762	758	745	743	591
55°	506	498	494	486	484	453
65°	272	270	273	270	270	275
75°	147	147	147	148	148	155
85°	38	40	42	42	42	44
90°	1	3	5	7	7	3
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1215.5	1204.9	1208.0	1205.4	1199.7
5°	1214.2	1201.0	1204.9	1200.7	1198.6
7.5°	1204.9	1191.8	1195.7	1191.5	1190.3
10°	1196.5	1184.3	1188.2	1184.0	1182.0
12.5°	1187.4	1174.4	1179.1	1174.0	1172.0
15°	1168.4	1156.2	1161.2	1157.0	1154.9
17.5°	1147.6	1134.6	1139.5	1134.7	1132.0
20°	1131.0	1118.8	1123.7	1116.4	1115.4
22.5°	1112.7	1100.5	1105.4	1095.6	1095.4
25°	1083.1	1069.9	1075.8	1064.4	1063.4
27.5°	1048.0	1035.8	1040.7	1029.0	1027.8
30°	1023.8	1011.6	1016.5	1004.0	1002.0
32.5°	996.4	985.0	989.1	976.6	975.3
35°	954.1	942.9	945.8	933.3	932.3
37.5°	906.0	895.9	897.5	883.8	882.7
40°	871.9	861.7	862.5	848.0	846.9
42.5°	834.5	824.3	823.4	808.8	807.8
45°	772.0	761.9	758.5	744.9	742.9
47.5°	700.9	690.7	684.4	673.4	671.9
50°	649.3	639.1	633.6	624.2	621.2
52.5°	593.5	583.3	578.7	570.1	567.1
55°	505.7	497.5	494.2	485.9	483.8
57.5°	422.2	416.7	415.8	407.6	406.8
60°	371.4	368.4	368.3	361.0	361.0
62.5°	328.2	325.9	327.5	322.7	321.9
65°	271.6	269.5	272.6	270.5	270.5
67.5°	226.8	226.8	228.7	227.9	227.9
70°	201.9	201.9	202.9	202.9	202.9
72.5°	179.4	178.6	181.2	181.2	180.4
75°	146.7	146.7	146.7	147.7	147.7
77.5°	114.2	114.4	115.3	115.1	114.2
80°	92.6	93.6	93.6	92.6	92.6
82.5°	71.0	72.0	72.0	71.8	71.0
85°	37.5	39.5	41.6	41.6	41.6
87.5°	11.0	14.7	17.7	18.0	17.2
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)