

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: P562735

Luminaire Tested: **SQ4-PC3-075U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562735
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

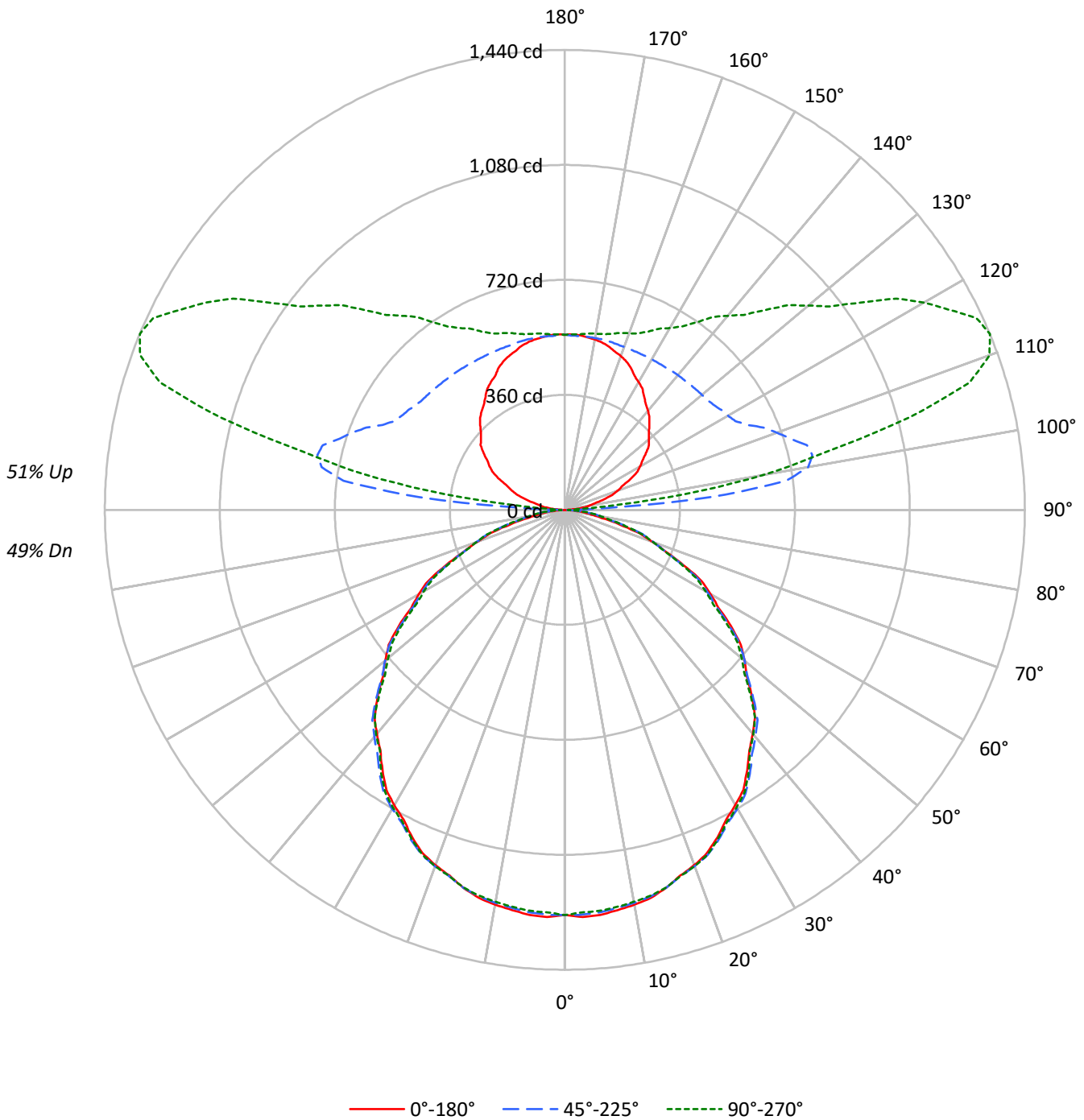
Lumens per Lamp: N/A
Luminaire Lumens: 7037.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47				42	
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40				35	
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34				29	
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29				25	
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20				17	
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16				14	
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14				12	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7843	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7676	7733	7708
30°	7583	7675	7641
35°	7470	7585	7532
40°	7347	7450	7375
45°	7214	7264	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6344	6242
65°	5983	5864	5813
70°	5239	5282	5260
75°	4216	4663	4689
80°	2997	3953	3995
85°	1821	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	1.7
10°-20°	344.5	4.9
20°-30°	521.7	7.4
30°-40°	625.5	8.9
40°-50°	637.8	9.1
50°-60°	556.8	7.9
60°-70°	398.6	5.7
70°-80°	205.3	2.9
80°-90°	53.3	0.8
90°-100°	258.7	3.7
100°-110°	711.8	10.1
110°-120°	734.7	10.4
120°-130°	588.6	8.4
130°-140°	462.3	6.6
140°-150°	354.3	5.0
150°-160°	254.7	3.6
160°-170°	155.8	2.2
170°-180°	52.5	0.7
0°-30°	986.3	14.0
0°-40°	1611.8	22.9
0°-60°	2806.4	39.9
0°-90°	3463.6	49.2
90°-120°	1705.2	24.2
90°-150°	3110.5	44.2
90°-180°	3573.0	50.8
0°-180°	7037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1273	1261	1265	1262	1260	121
15°	1225	1215	1225	1225	1224	345
25°	1131	1123	1139	1136	1136	521
35°	995	993	1010	1003	1003	622
45°	829	827	835	824	822	638
55°	634	626	626	617	617	565
65°	411	402	403	399	399	407
75°	177	185	196	197	197	192
85°	26	40	47	48	47	35
90°	1	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.6	1268.6	1268.6	1268.6	1268.6
2.5°	1276.1	1265.1	1268.6	1265.7	1261.1
5°	1273.3	1260.6	1265.1	1261.5	1260.4
7.5°	1264.1	1251.5	1257.3	1254.9	1253.8
10°	1255.7	1243.0	1249.8	1247.4	1246.3
12.5°	1244.4	1232.7	1240.4	1238.0	1237.8
15°	1225.1	1214.8	1225.1	1225.1	1223.9
17.5°	1200.9	1191.5	1202.6	1203.3	1202.6
20°	1184.0	1173.7	1187.5	1186.4	1187.5
22.5°	1163.3	1154.8	1169.7	1166.6	1167.8
25°	1131.1	1123.1	1139.4	1135.8	1135.8
27.5°	1093.1	1087.3	1105.1	1101.3	1101.3
30°	1067.7	1062.0	1080.6	1075.9	1075.9
32.5°	1039.5	1035.6	1053.4	1047.8	1047.8
35°	994.9	992.6	1010.2	1003.1	1003.1
37.5°	948.8	946.8	962.7	954.2	951.4
40°	915.0	913.9	927.9	918.5	918.5
42.5°	881.2	880.0	892.2	881.0	881.0
45°	829.3	827.0	835.1	824.5	822.2
47.5°	772.7	770.4	775.5	763.9	762.8
50°	734.1	731.8	734.1	723.5	722.4
52.5°	694.7	690.5	690.9	680.3	680.1
55°	634.3	626.2	626.1	616.7	616.7
57.5°	570.4	559.8	560.8	552.7	551.6
60°	526.2	514.7	515.7	508.6	507.4
62.5°	483.0	469.7	472.4	464.4	464.2
65°	411.1	401.9	402.9	399.4	399.4
67.5°	342.0	333.5	339.7	336.9	336.6
70°	291.3	285.6	293.7	293.6	292.5
72.5°	244.3	244.1	254.2	254.2	254.9
75°	177.4	185.4	196.2	197.3	197.3
77.5°	118.4	132.6	144.5	144.9	144.7
80°	84.6	100.7	111.6	113.9	112.8
82.5°	57.3	74.3	83.4	85.7	84.6
85°	25.8	39.6	47.0	48.1	47.0
87.5°	7.8	16.7	20.4	20.9	19.0
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)