

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: P562734

Luminaire Tested: **SQ4-PC3-075U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562734
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-4
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

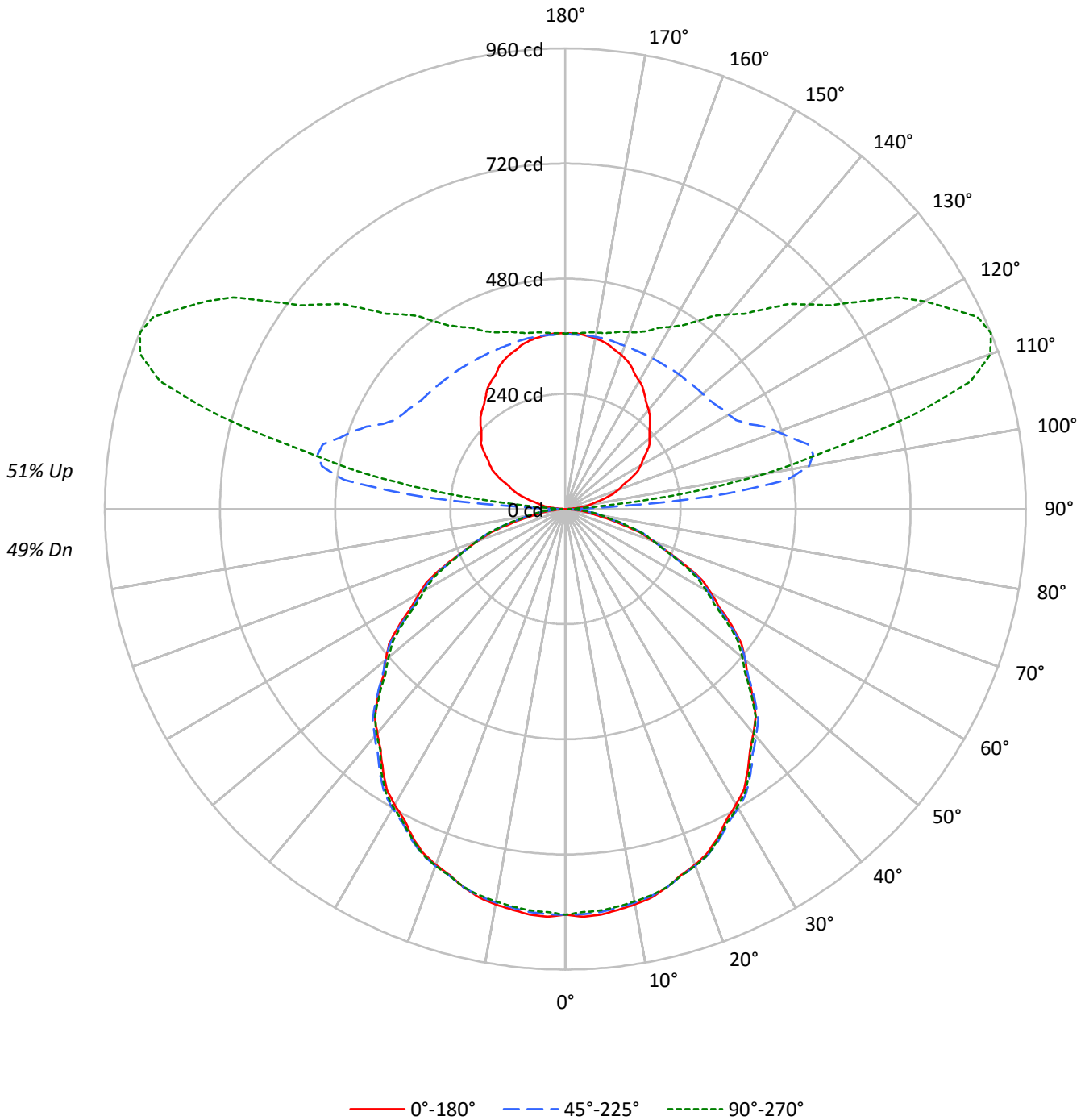
Lumens per Lamp: N/A
Luminaire Lumens: 4691.4 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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	7781
10°	7842	7806	7783
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7733	7708
30°	7583	7675	7642
35°	7471	7585	7532
40°	7347	7450	7376
45°	7213	7265	7153
50°	7025	7025	6913
55°	6803	6714	6613
60°	6473	6344	6242
65°	5984	5864	5811
70°	5239	5282	5260
75°	4214	4663	4691
80°	2997	3953	3995
85°	1821	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.7
10°-20°	229.7	4.9
20°-30°	347.8	7.4
30°-40°	417.0	8.9
40°-50°	425.2	9.1
50°-60°	371.2	7.9
60°-70°	265.7	5.7
70°-80°	136.9	2.9
80°-90°	35.5	0.8
90°-100°	172.5	3.7
100°-110°	474.5	10.1
110°-120°	489.8	10.4
120°-130°	392.4	8.4
130°-140°	308.2	6.6
140°-150°	236.2	5.0
150°-160°	169.8	3.6
160°-170°	103.8	2.2
170°-180°	35.0	0.7
0°-30°	657.6	14.0
0°-40°	1074.5	22.9
0°-60°	1870.9	39.9
0°-90°	2309.1	49.2
90°-120°	1136.8	24.2
90°-150°	2073.6	44.2
90°-180°	2382.0	50.8
0°-180°	4691.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	849	840	843	841	840	81
15°	817	810	817	817	816	230
25°	754	749	760	757	757	347
35°	663	662	673	669	669	415
45°	553	551	557	550	548	426
55°	423	418	417	411	411	377
65°	274	268	269	266	266	271
75°	118	124	131	132	132	128
85°	17	26	31	32	31	23
90°	1	3	5	7	7	2
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°	845.7	845.7	845.7	845.7	845.7
2.5°	850.7	843.4	845.7	843.8	840.7
5°	848.9	840.4	843.4	841.0	840.2
7.5°	842.7	834.3	838.2	836.6	835.9
10°	837.1	828.7	833.2	831.6	830.8
12.5°	829.6	821.8	826.9	825.4	825.2
15°	816.7	809.9	816.7	816.7	816.0
17.5°	800.6	794.3	801.7	802.2	801.7
20°	789.3	782.4	791.7	790.9	791.7
22.5°	775.6	769.9	779.8	777.8	778.5
25°	754.1	748.7	759.6	757.2	757.2
27.5°	728.7	724.9	736.7	734.2	734.2
30°	711.8	708.0	720.4	717.3	717.3
32.5°	693.0	690.4	702.3	698.5	698.5
35°	663.3	661.7	673.4	668.7	668.7
37.5°	632.6	631.2	641.8	636.1	634.3
40°	610.0	609.2	618.6	612.4	612.4
42.5°	587.5	586.7	594.8	587.3	587.3
45°	552.8	551.3	556.8	549.7	548.2
47.5°	515.1	513.6	517.0	509.3	508.5
50°	489.4	487.9	489.4	482.4	481.6
52.5°	463.1	460.4	460.6	453.6	453.4
55°	422.9	417.5	417.4	411.1	411.1
57.5°	380.3	373.2	373.8	368.5	367.7
60°	350.8	343.2	343.8	339.1	338.3
62.5°	322.0	313.1	315.0	309.6	309.5
65°	274.1	267.9	268.6	266.2	266.2
67.5°	228.0	222.4	226.5	224.6	224.4
70°	194.2	190.4	195.8	195.8	195.0
72.5°	162.9	162.7	169.5	169.5	169.9
75°	118.2	123.6	130.8	131.6	131.6
77.5°	78.9	88.4	96.3	96.6	96.5
80°	56.4	67.1	74.4	75.9	75.2
82.5°	38.2	49.5	55.6	57.1	56.4
85°	17.2	26.4	31.3	32.1	31.3
87.5°	5.2	11.1	13.6	13.9	12.7
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)