

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: P562589

Luminaire Tested: **SQ4-PC3-025U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562589
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

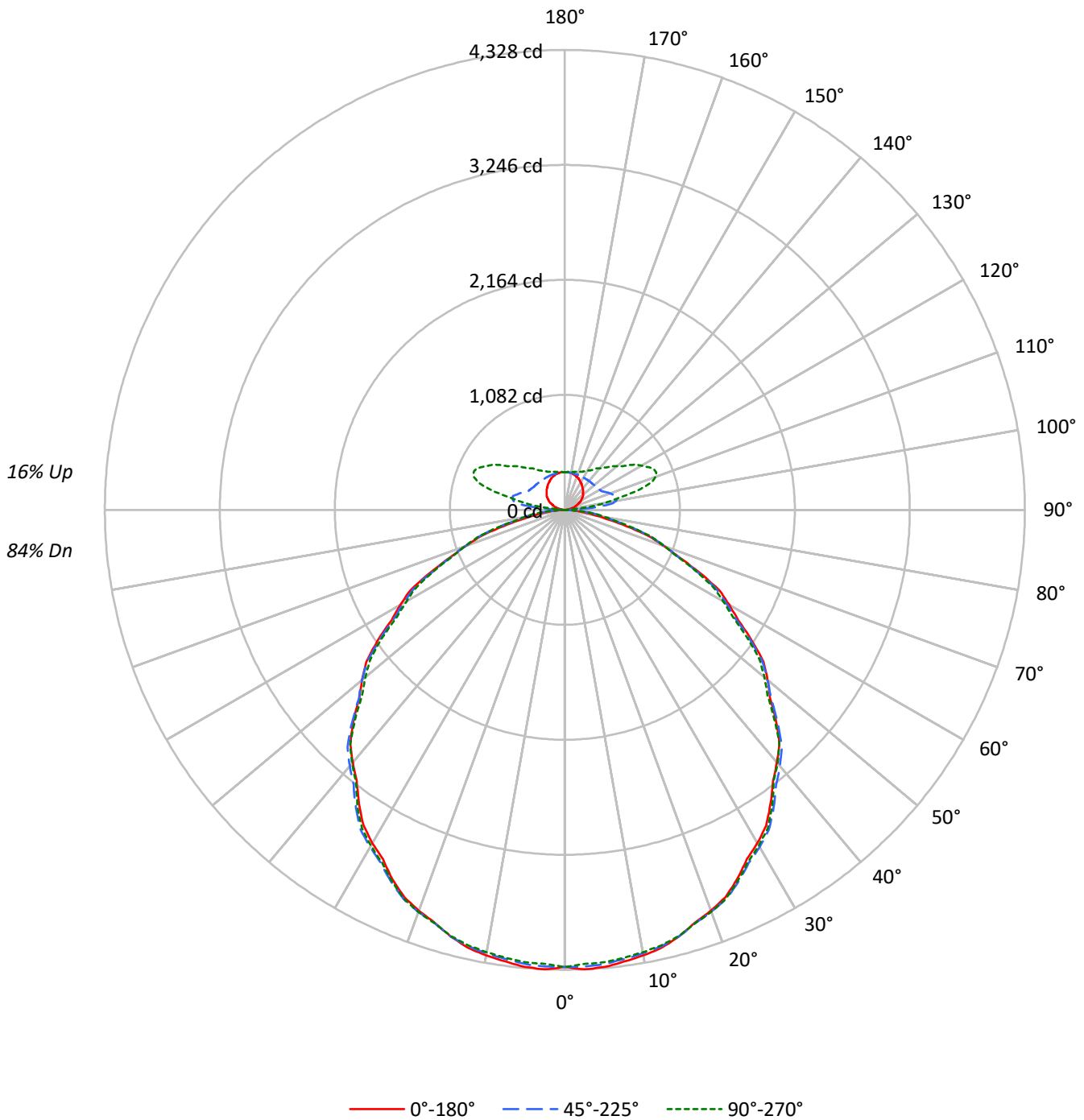
Lumens per Lamp: N/A
Luminaire Lumens: 14048.8 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 156.2
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84				
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71				
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59				
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50				
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43				
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37				
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33				
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29				
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26				
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23				
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13236	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12858	13014	12957
35°	12667	12861	12772
40°	12457	12633	12506
45°	12231	12318	12127
50°	11911	11911	11721
55°	11533	11384	11213
60°	10976	10756	10584
65°	10146	9943	9855
70°	8883	8954	8919
75°	7147	7904	7952
80°	5079	6702	6773
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	2.9
10°-20°	1168.4	8.3
20°-30°	1769.3	12.6
30°-40°	2121.2	15.1
40°-50°	2162.9	15.4
50°-60°	1888.1	13.4
60°-70°	1351.7	9.6
70°-80°	696.2	5.0
80°-90°	177.9	1.3
90°-100°	173.4	1.2
100°-110°	455.8	3.2
110°-120°	472.7	3.4
120°-130°	379.1	2.7
130°-140°	297.5	2.1
140°-150°	228.3	1.6
150°-160°	164.5	1.2
160°-170°	100.6	0.7
170°-180°	34.0	0.2
0°-30°	3344.9	23.8
0°-40°	5466.1	38.9
0°-60°	9517.0	67.7
0°-90°	11742.9	83.6
90°-120°	1101.9	7.8
90°-150°	2006.9	14.3
90°-180°	2306.0	16.4
0°-180°	14048.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4302	4302	4302	4302	4302	
5°	4318	4275	4290	4278	4274	410
15°	4155	4120	4155	4154	4151	1171
25°	3836	3809	3864	3852	3852	1765
35°	3374	3366	3426	3402	3402	2110
45°	2812	2804	2832	2796	2788	2165
55°	2151	2124	2123	2091	2091	1917
65°	1394	1363	1366	1354	1354	1379
75°	602	629	665	669	669	650
85°	88	134	159	163	159	119
90°	2	7	18	9	9	5
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4302.0	4302.0	4302.0	4302.0	4302.0
2.5°	4327.5	4290.1	4302.0	4292.1	4276.5
5°	4317.9	4275.1	4290.1	4278.0	4274.1
7.5°	4286.9	4244.0	4263.8	4255.7	4251.8
10°	4258.2	4215.3	4238.3	4230.2	4226.3
12.5°	4219.9	4180.2	4206.4	4198.4	4197.6
15°	4154.6	4119.6	4154.6	4154.5	4150.6
17.5°	4072.6	4040.6	4078.1	4080.5	4078.1
20°	4015.2	3980.2	4027.2	4023.3	4027.2
22.5°	3945.1	3916.3	3966.6	3956.3	3960.2
25°	3836.0	3808.7	3863.8	3851.9	3851.9
27.5°	3706.9	3687.4	3747.5	3734.8	3734.8
30°	3620.9	3601.4	3664.7	3648.7	3648.7
32.5°	3525.3	3512.0	3572.3	3553.1	3553.1
35°	3373.9	3366.1	3425.7	3401.8	3401.8
37.5°	3217.7	3210.7	3264.7	3235.9	3226.5
40°	3103.0	3099.1	3146.8	3115.0	3115.0
42.5°	2988.3	2984.4	3025.7	2987.5	2987.5
45°	2812.2	2804.4	2832.2	2796.1	2788.3
47.5°	2620.2	2612.5	2629.8	2590.7	2586.8
50°	2489.6	2481.8	2489.6	2453.6	2449.8
52.5°	2355.7	2341.7	2343.0	2307.1	2306.4
55°	2151.0	2123.7	2123.1	2091.3	2091.3
57.5°	1934.3	1898.5	1901.6	1874.5	1870.6
60°	1784.5	1745.6	1748.7	1724.7	1720.8
62.5°	1637.9	1592.8	1602.1	1575.0	1574.2
65°	1394.2	1363.0	1366.3	1354.3	1354.3
67.5°	1159.9	1131.1	1152.0	1142.4	1141.6
70°	987.9	968.4	995.8	995.7	991.9
72.5°	828.5	827.8	862.0	862.0	864.4
75°	601.5	628.7	665.2	669.2	669.2
77.5°	401.5	449.8	490.0	491.5	490.7
80°	286.8	341.3	378.4	386.3	382.4
82.5°	194.4	252.0	282.8	290.7	286.8
85°	87.6	134.4	159.3	163.2	159.3
87.5°	25.9	54.9	67.4	65.4	59.2
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)