

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: P562877

Luminaire Tested: **SQ4-PC3-0U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562877
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

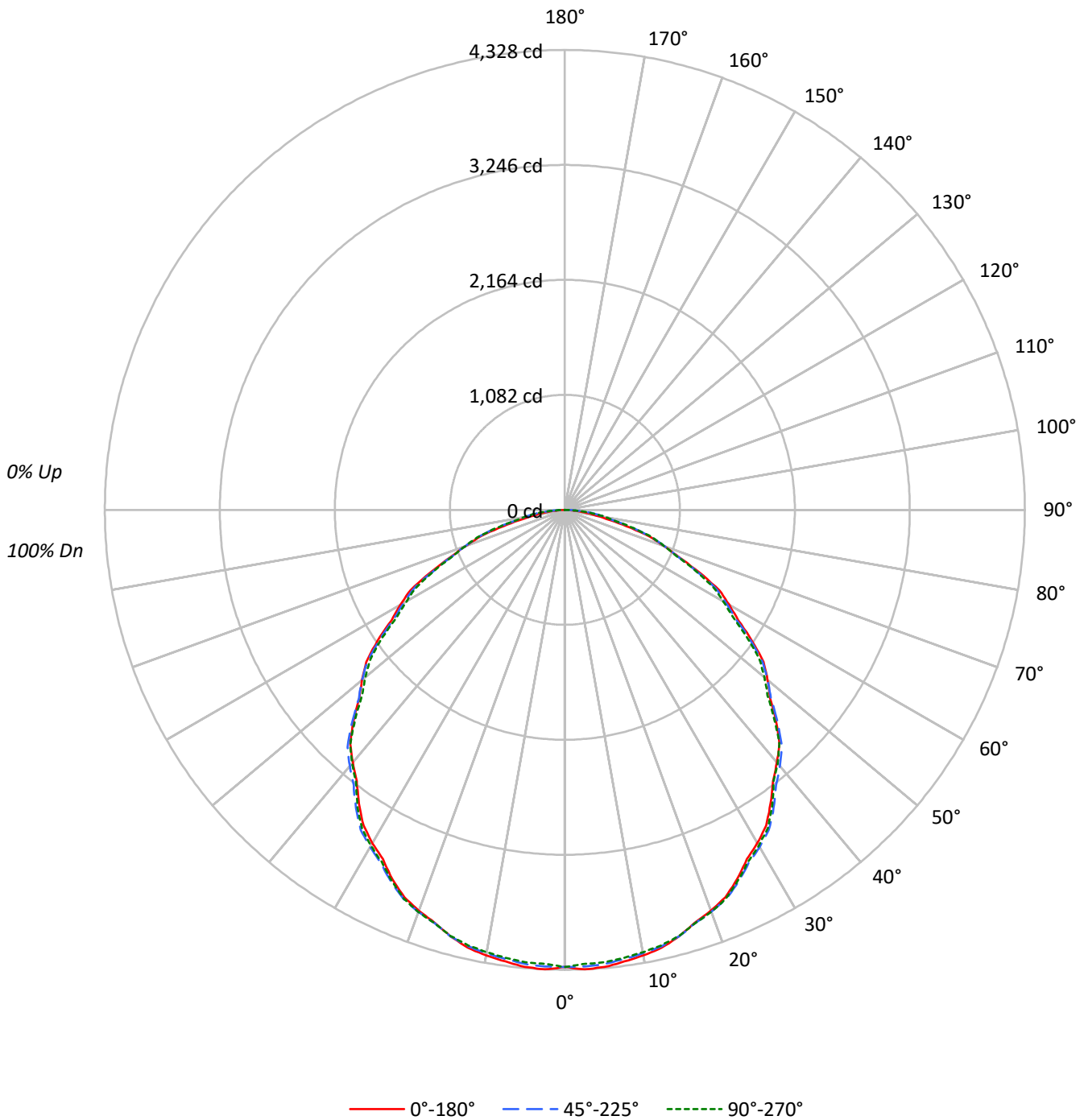
Lumens per Lamp: N/A
Luminaire Lumens: 11741.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 140.8
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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	3.5
10°-20°	1168.4	10.0
20°-30°	1769.3	15.1
30°-40°	2121.2	18.1
40°-50°	2162.9	18.4
50°-60°	1888.1	16.1
60°-70°	1351.7	11.5
70°-80°	696.2	5.9
80°-90°	176.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3344.9	28.5
0°-40°	5466.1	46.6
0°-60°	9517.0	81.1
0°-90°	11741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11741.0	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	123
90°	0	0	0	0	0	



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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°	25.5	53.5	63.7	63.6	57.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)