

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: P562579

Luminaire Tested: **SQ4-PC3-025U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562579
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-830-1D-UNV-STD-W-6
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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

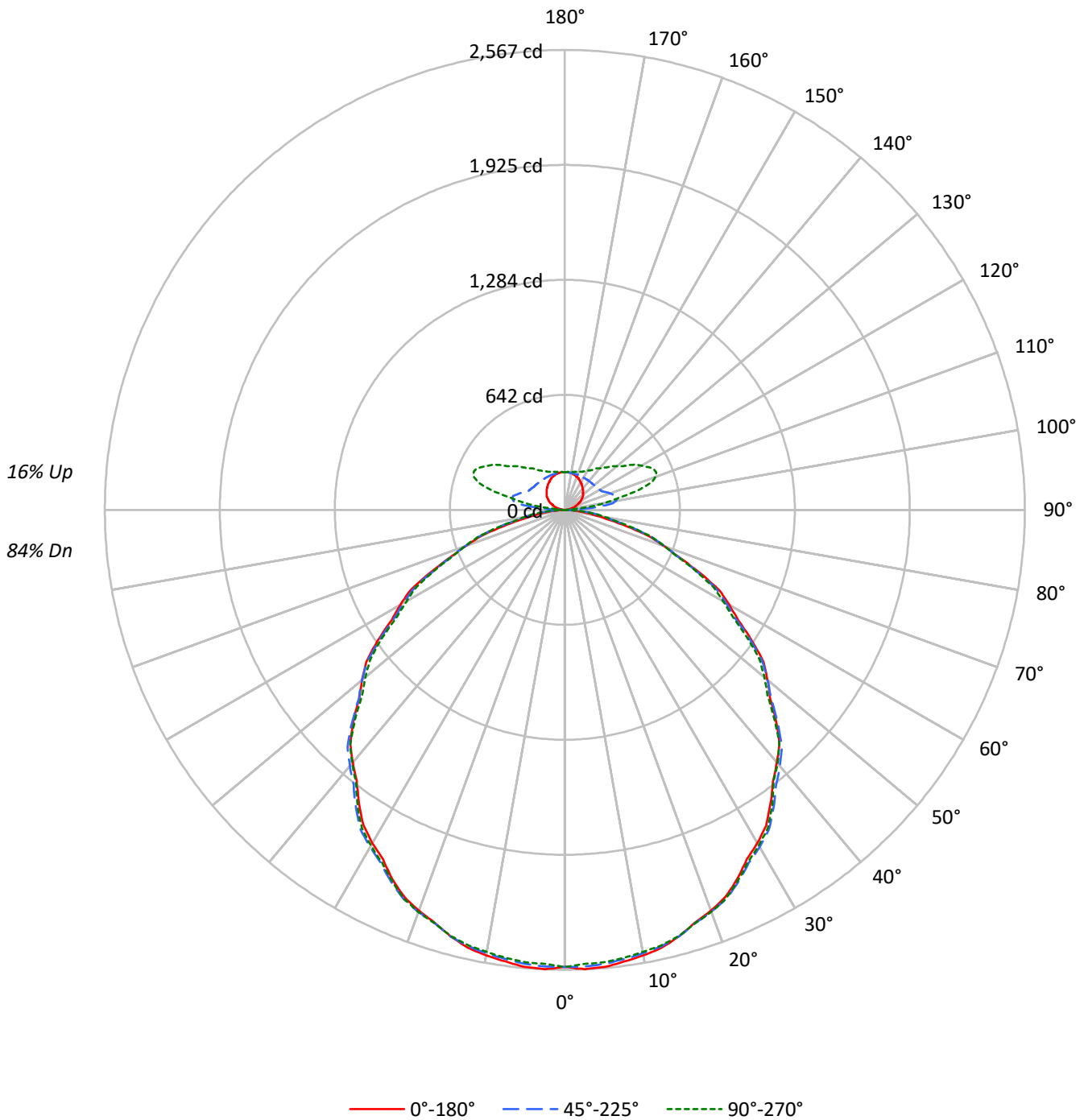
Lumens per Lamp: N/A
Luminaire Lumens: 8332.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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°	15693	15693	15693
5°	15812	15709	15651
10°	15773	15699	15655
15°	15690	15690	15676
20°	15587	15633	15633
25°	15440	15552	15504
30°	15252	15436	15369
35°	15025	15256	15149
40°	14776	14985	14833
45°	14508	14611	14385
50°	14129	14129	13903
55°	13680	13503	13300
60°	13020	12758	12555
65°	12035	11793	11690
70°	10537	10621	10578
75°	8477	9375	9432
80°	6025	7948	8033
85°	3670	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	2.9
10°-20°	692.9	8.3
20°-30°	1049.4	12.6
30°-40°	1258.0	15.1
40°-50°	1282.8	15.4
50°-60°	1119.8	13.4
60°-70°	801.7	9.6
70°-80°	412.9	5.0
80°-90°	105.5	1.3
90°-100°	102.8	1.2
100°-110°	270.3	3.2
110°-120°	280.3	3.4
120°-130°	224.9	2.7
130°-140°	176.4	2.1
140°-150°	135.4	1.6
150°-160°	97.5	1.2
160°-170°	59.7	0.7
170°-180°	20.2	0.2
0°-30°	1983.8	23.8
0°-40°	3241.8	38.9
0°-60°	5644.4	67.7
0°-90°	6964.5	83.6
90°-120°	653.5	7.8
90°-150°	1190.2	14.3
90°-180°	1368.0	16.4
0°-180°	8332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2551	2551	2551	2551	2551	
5°	2561	2536	2544	2537	2535	243
15°	2464	2443	2464	2464	2462	695
25°	2275	2259	2292	2284	2284	1047
35°	2001	1996	2032	2018	2018	1251
45°	1668	1663	1680	1658	1654	1284
55°	1276	1260	1259	1240	1240	1137
65°	827	808	810	803	803	818
75°	357	373	394	397	397	385
85°	52	80	94	97	94	71
90°	1	4	11	5	5	3
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2551.4	2551.4	2551.4	2551.4	2551.4
2.5°	2566.6	2544.4	2551.4	2545.6	2536.3
5°	2560.9	2535.5	2544.3	2537.2	2534.9
7.5°	2542.5	2517.0	2528.8	2524.0	2521.7
10°	2525.4	2500.0	2513.6	2508.9	2506.5
12.5°	2502.8	2479.2	2494.7	2490.0	2489.5
15°	2464.0	2443.2	2464.0	2464.0	2461.7
17.5°	2415.4	2396.4	2418.7	2420.0	2418.7
20°	2381.3	2360.5	2388.4	2386.1	2388.4
22.5°	2339.8	2322.7	2352.5	2346.4	2348.7
25°	2275.0	2258.9	2291.6	2284.5	2284.5
27.5°	2198.5	2186.9	2222.6	2215.0	2215.0
30°	2147.5	2135.9	2173.4	2164.0	2164.0
32.5°	2090.8	2082.9	2118.6	2107.3	2107.3
35°	2001.0	1996.4	2031.7	2017.5	2017.5
37.5°	1908.4	1904.2	1936.3	1919.1	1913.6
40°	1840.3	1838.0	1866.3	1847.4	1847.4
42.5°	1772.3	1770.0	1794.5	1771.8	1771.8
45°	1667.9	1663.3	1679.7	1658.3	1653.7
47.5°	1554.0	1549.4	1559.7	1536.5	1534.2
50°	1476.5	1471.9	1476.5	1455.2	1452.9
52.5°	1397.1	1388.8	1389.6	1368.3	1367.9
55°	1275.7	1259.5	1259.2	1240.3	1240.3
57.5°	1147.2	1125.9	1127.8	1111.7	1109.4
60°	1058.4	1035.3	1037.1	1022.9	1020.6
62.5°	971.4	944.6	950.2	934.1	933.6
65°	826.9	808.4	810.3	803.2	803.2
67.5°	687.9	670.8	683.2	677.5	677.1
70°	585.9	574.3	590.6	590.6	588.2
72.5°	491.4	490.9	511.2	511.3	512.6
75°	356.7	372.9	394.5	396.9	396.9
77.5°	238.1	266.8	290.6	291.5	291.1
80°	170.1	202.4	224.4	229.1	226.8
82.5°	115.3	149.5	167.7	172.4	170.1
85°	52.0	79.7	94.5	96.8	94.5
87.5°	15.4	32.6	40.0	38.8	35.1
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)