

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: P562867

Luminaire Tested: **SQ4-PC3-0U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562867
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-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

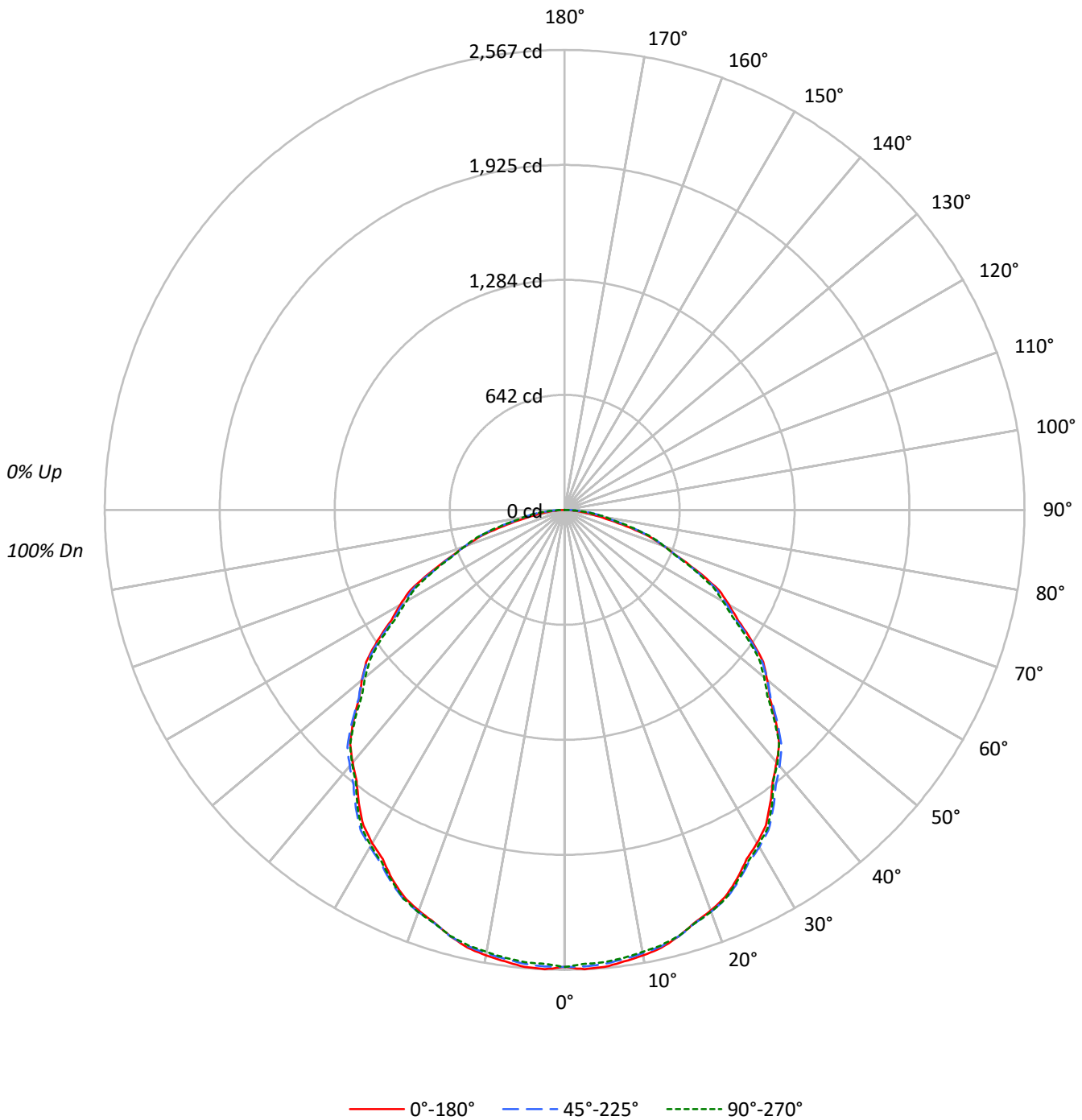
Lumens per Lamp: N/A
Luminaire Lumens: 6963.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	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	3.5
10°-20°	692.9	10.0
20°-30°	1049.4	15.1
30°-40°	1258.0	18.1
40°-50°	1282.8	18.4
50°-60°	1119.8	16.1
60°-70°	801.7	11.5
70°-80°	412.9	5.9
80°-90°	104.4	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°	1983.8	28.5
0°-40°	3241.8	46.6
0°-60°	5644.4	81.1
0°-90°	6963.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6963.3	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	73
90°	0	0	0	0	0	



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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°	15.1	31.8	37.8	37.7	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)