

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: P561706

Luminaire Tested: **SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561706
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-125U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

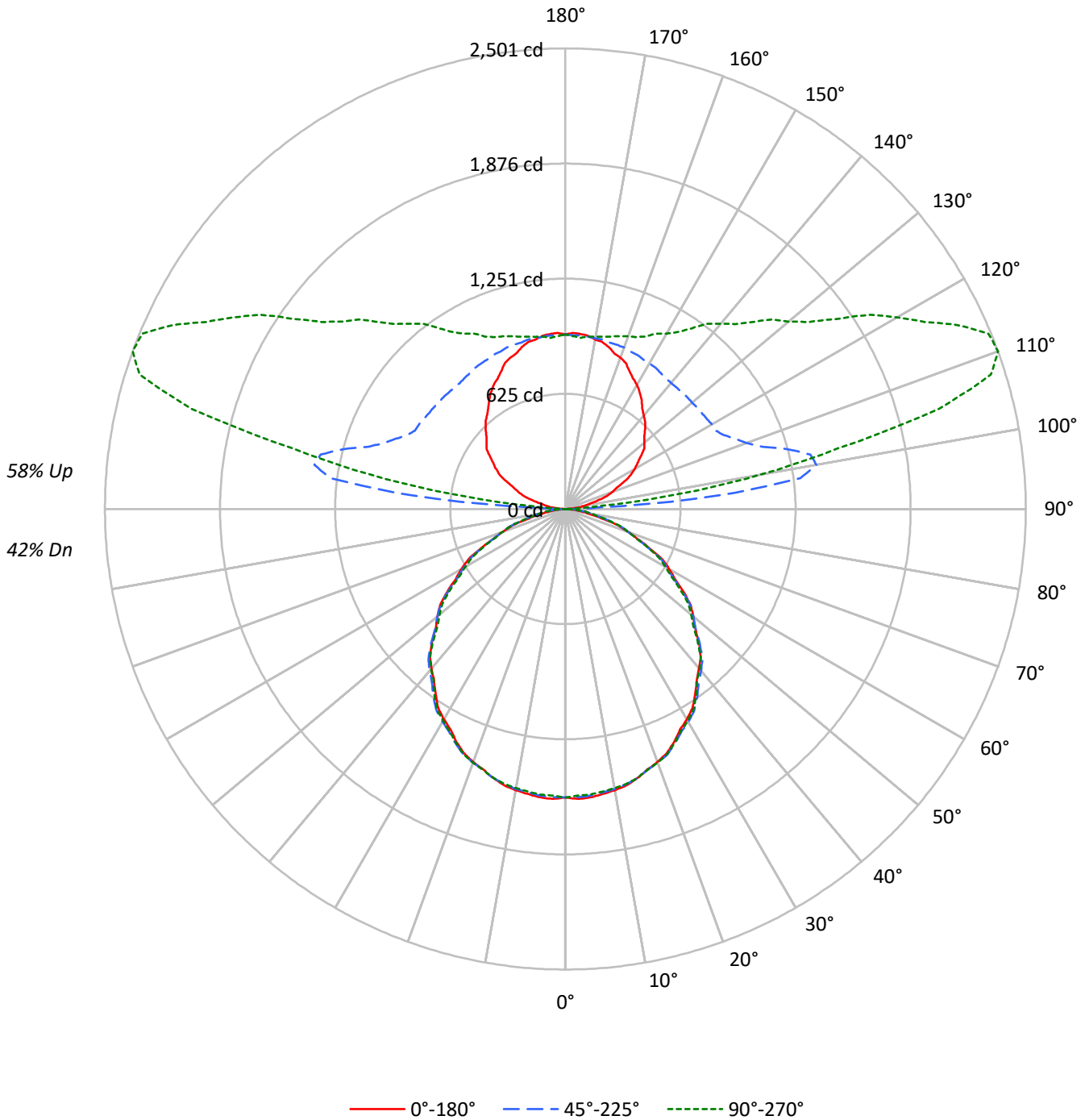
Lumens per Lamp: N/A
Luminaire Lumens: 10158.4 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.3
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42				
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36				
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30				
3	80	70	63	57	73	65	58	53	53	49	45	43	40	37	34	32	30	25				
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	28	25	22				
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19				
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16				
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15				
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13				
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14455	14455	14455
5°	14564	14470	14416
10°	14529	14460	14420
15°	14453	14453	14438
20°	14357	14400	14400
25°	14221	14325	14280
30°	14049	14218	14156
35°	13839	14052	13954
40°	13611	13802	13663
45°	13364	13458	13250
50°	13014	13014	12806
55°	12601	12437	12251
60°	11992	11752	11564
65°	11084	10863	10767
70°	9706	9784	9744
75°	7810	8637	8687
80°	5547	7322	7401
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.5
10°-20°	425.5	4.2
20°-30°	644.4	6.3
30°-40°	772.5	7.6
40°-50°	787.7	7.8
50°-60°	687.6	6.8
60°-70°	492.3	4.8
70°-80°	253.5	2.5
80°-90°	64.1	0.6
90°-100°	431.5	4.2
100°-110°	1227.8	12.1
110°-120°	1176.4	11.6
120°-130°	931.1	9.2
130°-140°	747.3	7.4
140°-150°	585.1	5.8
150°-160°	428.1	4.2
160°-170°	265.2	2.6
170°-180°	90.0	0.9
0°-30°	1218.2	12.0
0°-40°	1990.7	19.6
0°-60°	3466.0	34.1
0°-90°	4275.9	42.1
90°-120°	2835.8	27.9
90°-150°	5099.2	50.2
90°-180°	5882.0	57.9
0°-180°	10158.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1572	1557	1562	1558	1557	149
15°	1513	1500	1513	1513	1512	427
25°	1397	1387	1407	1403	1403	643
35°	1229	1226	1248	1239	1239	768
45°	1024	1021	1031	1018	1016	788
55°	783	773	773	762	762	698
65°	508	496	498	493	493	502
75°	219	229	242	244	244	237
85°	32	49	58	59	58	43
90°	0	0	0	0	0	3
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.7	1566.7	1566.7	1566.7	1566.7
2.5°	1576.0	1562.4	1566.7	1563.1	1557.5
5°	1572.5	1556.9	1562.4	1558.0	1556.6
7.5°	1561.2	1545.6	1552.8	1549.9	1548.5
10°	1550.8	1535.2	1543.5	1540.6	1539.2
12.5°	1536.9	1522.4	1531.9	1529.0	1528.7
15°	1513.1	1500.3	1513.1	1513.0	1511.6
17.5°	1483.2	1471.6	1485.2	1486.1	1485.2
20°	1462.3	1449.5	1466.6	1465.2	1466.6
22.5°	1436.8	1426.3	1444.6	1440.9	1442.3
25°	1397.0	1387.1	1407.2	1402.8	1402.8
27.5°	1350.0	1342.9	1364.8	1360.2	1360.2
30°	1318.7	1311.6	1334.6	1328.8	1328.8
32.5°	1283.9	1279.0	1301.0	1294.0	1294.0
35°	1228.7	1225.9	1247.6	1238.9	1238.9
37.5°	1171.9	1169.3	1189.0	1178.5	1175.1
40°	1130.1	1128.7	1146.0	1134.4	1134.4
42.5°	1088.3	1086.9	1101.9	1088.0	1088.0
45°	1024.2	1021.4	1031.4	1018.3	1015.5
47.5°	954.3	951.4	957.7	943.5	942.1
50°	906.7	903.8	906.7	893.6	892.2
52.5°	857.9	852.8	853.3	840.2	840.0
55°	783.4	773.4	773.2	761.6	761.6
57.5°	704.5	691.4	692.6	682.7	681.2
60°	649.9	635.7	636.9	628.1	626.7
62.5°	596.5	580.1	583.5	573.6	573.3
65°	507.7	496.4	497.6	493.2	493.2
67.5°	422.4	411.9	419.5	416.1	415.8
70°	359.8	352.7	362.7	362.6	361.2
72.5°	301.7	301.5	313.9	313.9	314.8
75°	219.1	229.0	242.3	243.7	243.7
77.5°	146.2	163.8	178.4	179.0	178.7
80°	104.4	124.3	137.8	140.7	139.3
82.5°	70.8	91.8	103.0	105.9	104.4
85°	31.9	48.9	58.0	59.4	58.0
87.5°	9.3	19.5	23.2	23.2	20.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)