

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: P564804

Luminaire Tested: **SQ4-PW1-075U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564804
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

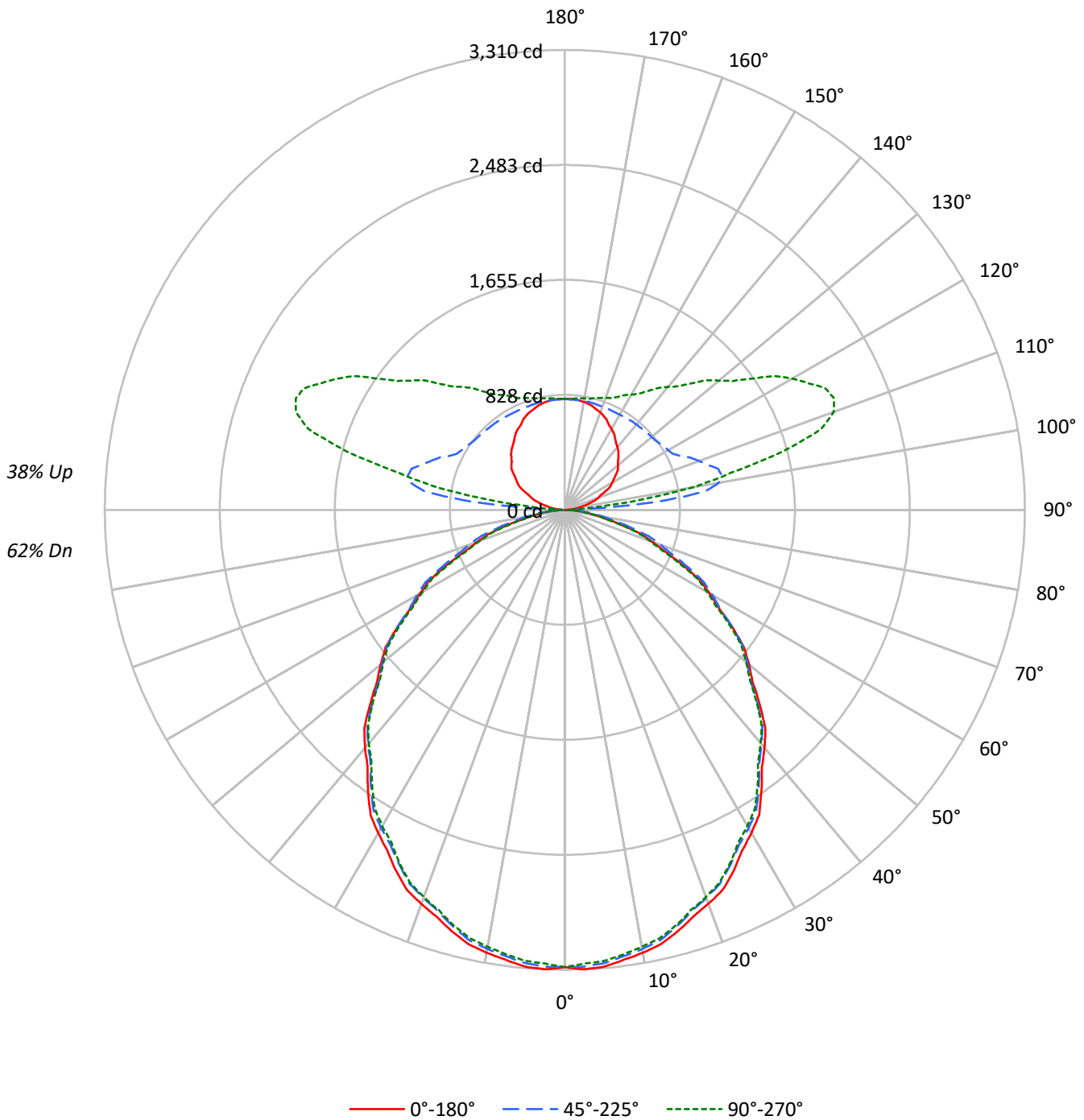
Lumens per Lamp: N/A
Luminaire Lumens: 13578.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15160	15092
10°	15158	15036	14955
15°	14998	14831	14776
20°	14818	14591	14562
25°	14611	14346	14301
30°	14303	14087	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12403	12299	12215
55°	11824	11824	11637
60°	11102	11316	10916
65°	10160	10667	9907
70°	8956	9816	8721
75°	7648	8785	7441
80°	5932	7396	6009
85°	3837	5679	5065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	2.3
10°-20°	875.0	6.4
20°-30°	1297.8	9.6
30°-40°	1518.6	11.2
40°-50°	1511.8	11.1
50°-60°	1305.5	9.6
60°-70°	939.7	6.9
70°-80°	492.8	3.6
80°-90°	124.2	0.9
90°-100°	376.7	2.8
100°-110°	1036.3	7.6
110°-120°	1069.6	7.9
120°-130°	857.0	6.3
130°-140°	673.1	5.0
140°-150°	515.8	3.8
150°-160°	370.9	2.7
160°-170°	226.8	1.7
170°-180°	76.4	0.6
0°-30°	2482.7	18.3
0°-40°	4001.3	29.5
0°-60°	6818.7	50.2
0°-90°	8375.4	61.7
90°-120°	2482.6	18.3
90°-150°	4528.5	33.4
90°-180°	5203.0	38.3
0°-180°	13578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3300	3263	3274	3265	3259	313
15°	3140	3101	3106	3100	3094	885
25°	2871	2822	2818	2801	2810	1320
35°	2468	2434	2433	2410	2418	1543
45°	1983	1966	1957	1951	1949	1530
55°	1470	1467	1470	1450	1447	1312
65°	931	959	977	939	908	922
75°	429	469	493	460	418	460
85°	72	95	107	101	96	96
90°	2	7	12	15	15	6
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3291.1	3291.1	3291.1	3291.1	3291.1
2.5°	3309.6	3282.4	3291.1	3283.8	3267.9
5°	3299.8	3262.9	3273.7	3264.9	3259.2
7.5°	3266.1	3232.1	3240.1	3230.7	3227.3
10°	3236.0	3202.0	3209.9	3198.2	3192.5
12.5°	3201.2	3164.9	3172.8	3161.1	3157.7
15°	3140.3	3100.6	3105.5	3099.6	3093.9
17.5°	3069.6	3029.3	3030.1	3020.8	3019.7
20°	3018.5	2976.0	2972.1	2960.7	2966.3
22.5°	2962.8	2918.0	2914.1	2898.1	2906.0
25°	2870.6	2822.4	2818.4	2801.2	2809.7
27.5°	2763.9	2716.3	2716.4	2692.2	2701.3
30°	2685.1	2639.7	2644.5	2615.7	2627.1
32.5°	2601.6	2560.7	2563.3	2534.5	2545.9
35°	2467.6	2433.6	2432.8	2409.8	2418.3
37.5°	2330.7	2300.7	2295.9	2282.6	2284.9
40°	2235.6	2210.1	2200.8	2192.1	2192.1
42.5°	2135.9	2112.6	2103.4	2097.0	2094.7
45°	1983.3	1966.3	1957.3	1951.4	1948.6
47.5°	1832.6	1816.7	1808.8	1804.7	1801.8
50°	1728.2	1716.8	1713.7	1704.9	1702.1
52.5°	1623.8	1617.0	1613.9	1602.9	1600.0
55°	1470.1	1467.3	1470.1	1449.8	1446.9
57.5°	1310.1	1314.6	1324.0	1296.6	1289.8
60°	1203.3	1214.7	1226.5	1194.4	1183.1
62.5°	1094.3	1112.5	1129.1	1092.2	1076.3
65°	930.8	959.1	977.2	938.8	907.6
67.5°	773.0	808.2	829.9	788.5	753.3
70°	664.0	703.7	727.8	686.3	646.6
72.5°	568.9	613.1	632.7	593.5	553.8
75°	429.1	468.8	492.9	460.1	417.5
77.5°	304.5	341.9	361.9	333.2	298.1
80°	223.3	263.0	278.4	254.5	226.2
82.5°	158.3	191.2	201.8	187.5	168.2
85°	72.5	95.2	107.3	101.4	95.7
87.5°	18.9	35.8	46.5	47.2	49.5
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)