

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: P563460

Luminaire Tested: **SQ4-PP3-075U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563460
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

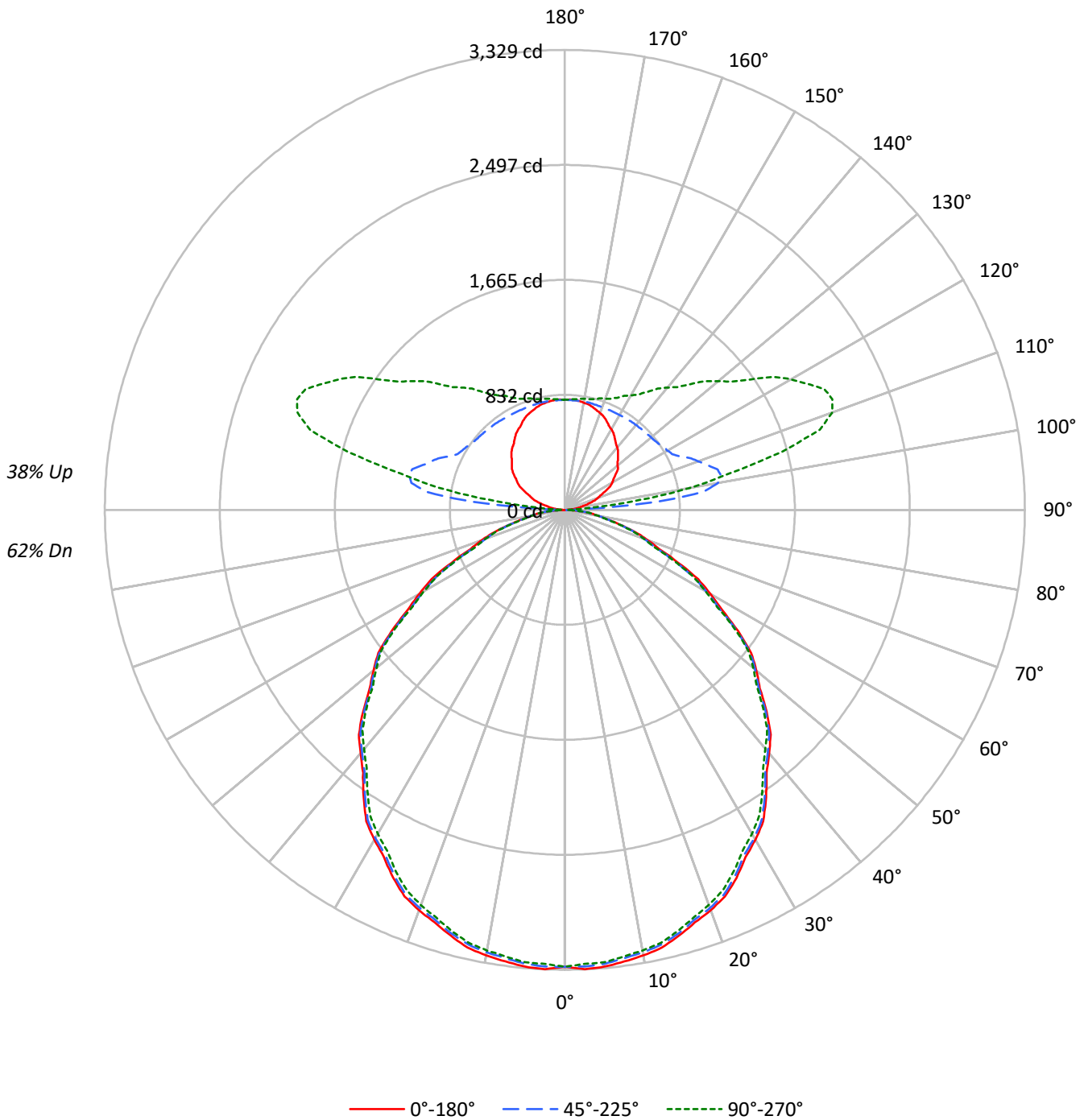
Lumens per Lamp: N/A
Luminaire Lumens: 13670.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15277	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13844	13757	13599
45°	13465	13371	13239
50°	12982	12899	12775
55°	12310	12148	12054
60°	11207	10886	10832
65°	9873	9462	9430
70°	8524	8172	8172
75°	7338	7235	7131
80°	6469	6546	6392
85°	5065	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	2.3
10°-20°	893.1	6.5
20°-30°	1337.7	9.8
30°-40°	1569.1	11.5
40°-50°	1574.0	11.5
50°-60°	1342.7	9.8
60°-70°	875.7	6.4
70°-80°	439.3	3.2
80°-90°	123.6	0.9
90°-100°	376.7	2.8
100°-110°	1036.3	7.6
110°-120°	1069.6	7.8
120°-130°	857.0	6.3
130°-140°	673.1	4.9
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°	2543.5	18.6
0°-40°	4112.6	30.1
0°-60°	7029.3	51.4
0°-90°	8467.9	61.9
90°-120°	2482.6	18.2
90°-150°	4528.5	33.1
90°-180°	5203.0	38.1
0°-180°	13670.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3308	3308	3308	3308	3308	
5°	3319	3288	3299	3287	3287	315
15°	3192	3161	3174	3163	3157	900
25°	2940	2906	2919	2893	2890	1352
35°	2540	2514	2522	2493	2490	1586
45°	2064	2050	2050	2029	2029	1589
55°	1531	1525	1510	1502	1499	1360
65°	904	888	867	861	864	903
75°	412	412	406	403	400	447
85°	96	104	104	104	104	112
90°	2	7	12	15	15	7
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°	3307.7	3307.7	3307.7	3307.7	3307.7
2.5°	3328.6	3301.4	3307.7	3302.7	3289.1
5°	3319.3	3288.1	3299.0	3287.4	3287.4
7.5°	3296.7	3262.7	3273.5	3261.9	3261.3
10°	3275.8	3241.8	3252.6	3241.0	3238.1
12.5°	3245.7	3211.6	3224.8	3210.9	3210.3
15°	3191.7	3160.6	3174.3	3162.6	3157.0
17.5°	3130.9	3096.8	3113.5	3097.2	3094.9
20°	3084.5	3050.5	3067.1	3043.9	3043.9
22.5°	3028.8	2994.8	3013.7	2983.6	2983.6
25°	2939.5	2905.5	2919.2	2893.1	2890.2
27.5°	2833.4	2800.0	2814.3	2784.7	2784.1
30°	2756.9	2725.7	2742.4	2710.4	2707.6
32.5°	2673.4	2644.5	2656.6	2624.6	2621.8
35°	2539.5	2514.0	2522.1	2493.0	2490.2
37.5°	2398.6	2372.5	2381.8	2356.8	2355.7
40°	2298.9	2281.9	2284.4	2263.9	2258.3
42.5°	2206.1	2186.8	2189.3	2169.0	2167.8
45°	2064.0	2049.9	2049.6	2029.3	2029.3
47.5°	1913.3	1902.5	1899.4	1882.6	1882.0
50°	1808.9	1800.4	1797.3	1782.8	1780.0
52.5°	1699.9	1696.0	1686.0	1673.8	1673.3
55°	1530.6	1525.0	1510.4	1501.6	1498.8
57.5°	1346.8	1335.5	1319.0	1306.3	1308.6
60°	1214.7	1203.3	1179.9	1174.1	1174.1
62.5°	1087.1	1073.5	1050.0	1042.0	1046.5
65°	904.5	887.5	866.8	861.1	863.9
67.5°	738.7	723.3	701.0	700.9	698.6
70°	632.0	623.5	605.9	605.9	605.9
72.5°	536.9	532.9	520.1	520.0	517.8
75°	411.7	411.7	405.9	402.9	400.1
77.5°	308.4	309.6	306.7	303.7	298.6
80°	243.5	249.2	246.4	243.4	240.6
82.5°	183.2	188.9	188.4	183.2	182.6
85°	95.7	104.2	104.4	104.4	104.4
87.5°	25.9	35.9	39.5	40.2	42.5
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)