

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: P563452

Luminaire Tested: **SQ4-PP3-075U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563452
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

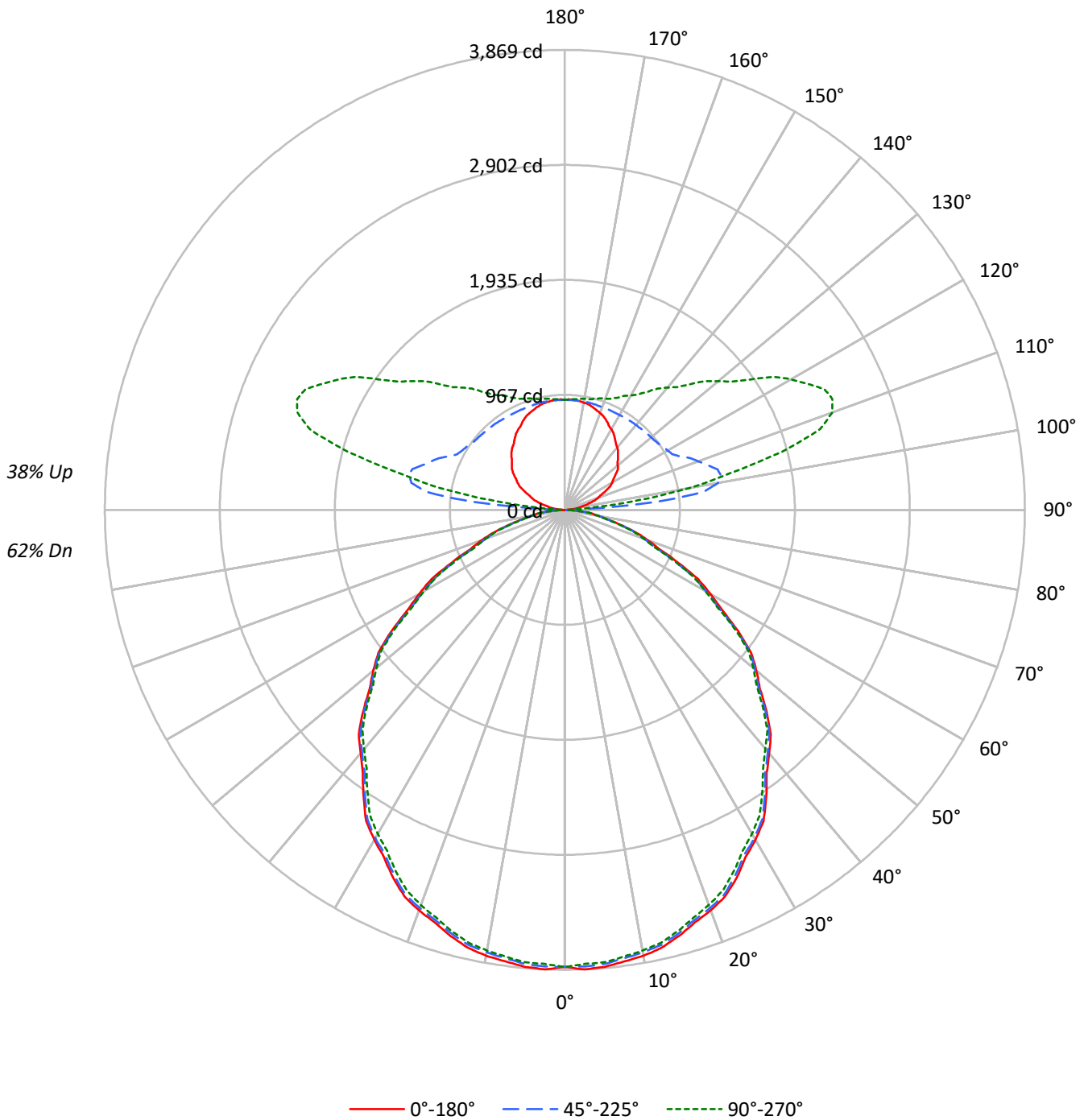
Lumens per Lamp: N/A
Luminaire Lumens: 15891.5 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17101
30°	17071	16982	16766
35°	16625	16511	16302
40°	16093	15991	15809
45°	15653	15543	15390
50°	15091	14995	14849
55°	14310	14121	14013
60°	13027	12655	12592
65°	11477	10998	10961
70°	9908	9499	9499
75°	8529	8409	8290
80°	7521	7608	7430
85°	5886	6420	6420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.6	2.3
10°-20°	1038.2	6.5
20°-30°	1555.0	9.8
30°-40°	1824.0	11.5
40°-50°	1829.7	11.5
50°-60°	1560.9	9.8
60°-70°	1018.0	6.4
70°-80°	510.7	3.2
80°-90°	143.7	0.9
90°-100°	437.9	2.8
100°-110°	1204.6	7.6
110°-120°	1243.4	7.8
120°-130°	996.2	6.3
130°-140°	782.5	4.9
140°-150°	599.6	3.8
150°-160°	431.1	2.7
160°-170°	263.6	1.7
170°-180°	88.9	0.6
0°-30°	2956.8	18.6
0°-40°	4780.8	30.1
0°-60°	8171.3	51.4
0°-90°	9843.7	61.9
90°-120°	2885.9	18.2
90°-150°	5264.2	33.1
90°-180°	6048.0	38.1
0°-180°	15891.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3845	3845	3845	3845	3845	
5°	3859	3822	3835	3822	3822	366
15°	3710	3674	3690	3676	3670	1047
25°	3417	3378	3394	3363	3360	1571
35°	2952	2922	2932	2898	2895	1844
45°	2399	2383	2382	2359	2359	1847
55°	1779	1773	1756	1746	1742	1581
65°	1051	1032	1008	1001	1004	1049
75°	478	478	472	468	465	519
85°	111	121	121	121	121	131
90°	2	8	14	18	18	8
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3869.4	3837.7	3845.1	3839.3	3823.5
5°	3858.6	3822.3	3835.0	3821.5	3821.5
7.5°	3832.3	3792.8	3805.3	3791.8	3791.2
10°	3808.0	3768.5	3781.1	3767.5	3764.2
12.5°	3773.0	3733.4	3748.7	3732.5	3731.9
15°	3710.3	3674.1	3690.1	3676.5	3669.9
17.5°	3639.5	3600.0	3619.3	3600.4	3597.7
20°	3585.6	3546.1	3565.4	3538.4	3538.4
22.5°	3520.9	3481.4	3503.4	3468.3	3468.3
25°	3417.1	3377.6	3393.5	3363.1	3359.8
27.5°	3293.8	3254.9	3271.5	3237.1	3236.5
30°	3204.8	3168.6	3188.0	3150.8	3147.5
32.5°	3107.8	3074.1	3088.2	3051.1	3047.8
35°	2952.1	2922.4	2931.8	2898.1	2894.8
37.5°	2788.3	2758.0	2768.7	2739.7	2738.4
40°	2672.4	2652.6	2655.5	2631.8	2625.2
42.5°	2564.5	2542.1	2545.0	2521.4	2520.0
45°	2399.4	2382.9	2382.5	2359.0	2359.0
47.5°	2224.2	2211.6	2208.0	2188.4	2187.8
50°	2102.8	2093.0	2089.4	2072.4	2069.1
52.5°	1976.1	1971.5	1960.0	1945.8	1945.1
55°	1779.3	1772.7	1755.7	1745.6	1742.3
57.5°	1565.7	1552.5	1533.3	1518.6	1521.2
60°	1412.0	1398.8	1371.6	1364.8	1364.8
62.5°	1263.7	1247.9	1220.6	1211.3	1216.5
65°	1051.4	1031.7	1007.6	1000.9	1004.2
67.5°	858.7	840.9	814.9	814.8	812.2
70°	734.6	724.8	704.3	704.3	704.3
72.5°	624.1	619.5	604.6	604.5	601.9
75°	478.5	478.5	471.8	468.3	465.1
77.5°	358.6	359.9	356.5	353.0	347.1
80°	283.1	289.7	286.4	283.0	279.7
82.5°	213.0	219.6	219.0	213.0	212.3
85°	111.2	121.1	121.3	121.3	121.3
87.5°	30.1	41.8	45.9	46.8	49.4
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)