

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: P563445

Luminaire Tested: **SQ4-PP3-075U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563445
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-835-1D-UNV-STD-W-12
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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

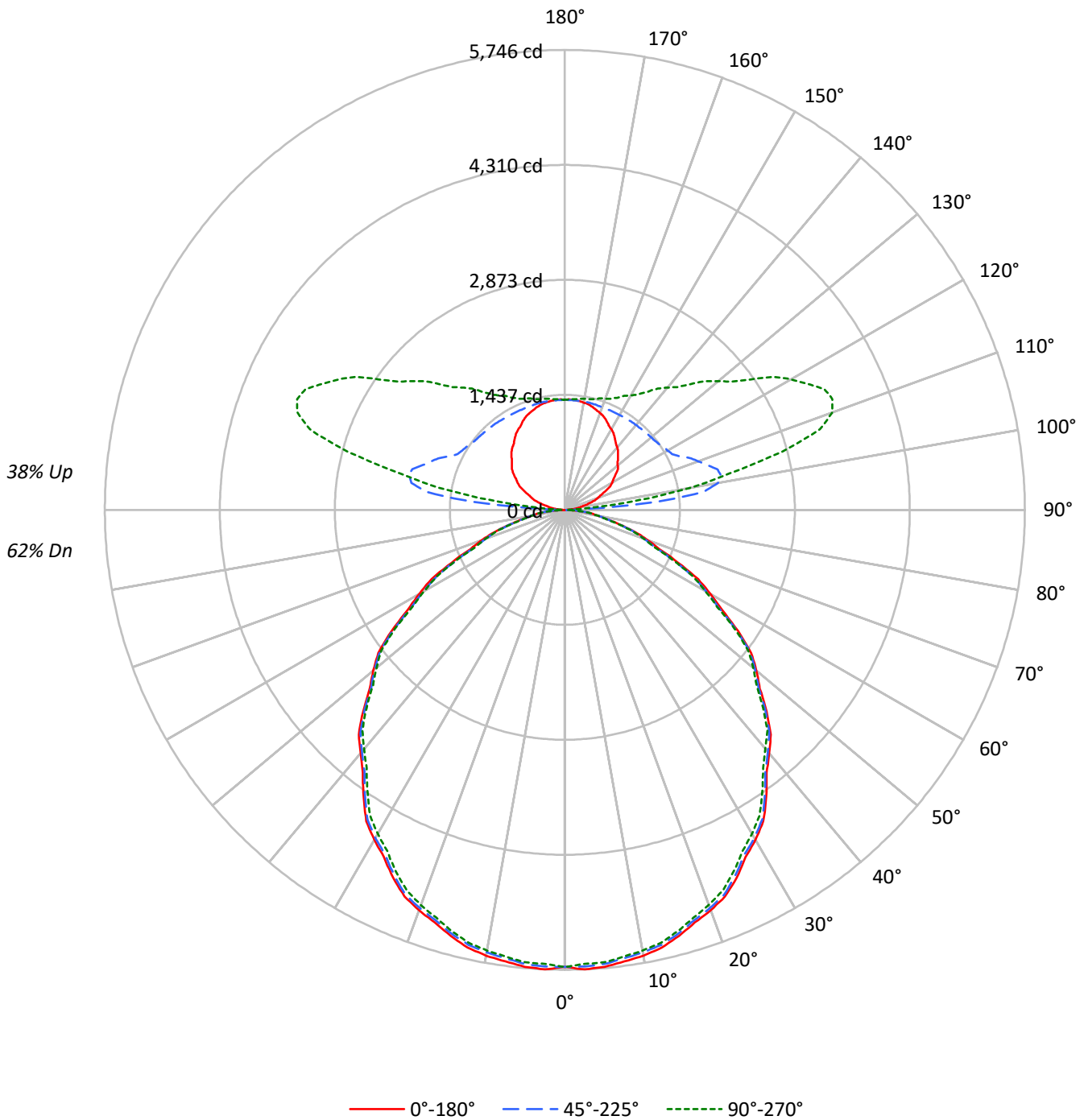
Lumens per Lamp: N/A
Luminaire Lumens: 23599.8 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 194.8
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°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16812	16599
35°	16459	16347	16140
40°	15933	15832	15651
45°	15497	15389	15236
50°	14941	14845	14702
55°	14168	13980	13873
60°	12898	12529	12466
65°	11362	10889	10853
70°	9810	9405	9405
75°	8444	8325	8206
80°	7446	7534	7357
85°	5829	6359	6359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.0	2.3
10°-20°	1541.7	6.5
20°-30°	2309.3	9.8
30°-40°	2708.7	11.5
40°-50°	2717.2	11.5
50°-60°	2318.0	9.8
60°-70°	1511.7	6.4
70°-80°	758.4	3.2
80°-90°	213.4	0.9
90°-100°	650.2	2.8
100°-110°	1789.0	7.6
110°-120°	1846.5	7.8
120°-130°	1479.4	6.3
130°-140°	1162.0	4.9
140°-150°	890.5	3.8
150°-160°	640.2	2.7
160°-170°	391.5	1.7
170°-180°	132.0	0.6
0°-30°	4391.0	18.6
0°-40°	7099.7	30.1
0°-60°	12134.9	51.4
0°-90°	14618.4	61.9
90°-120°	4285.7	18.2
90°-150°	7817.7	33.1
90°-180°	8981.0	38.1
0°-180°	23599.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5710	5710	5710	5710	5710	
5°	5730	5676	5695	5675	5675	544
15°	5510	5456	5480	5460	5450	1554
25°	5075	5016	5040	4994	4990	2333
35°	4384	4340	4354	4304	4299	2739
45°	3563	3539	3538	3503	3503	2744
55°	2642	2633	2607	2592	2587	2348
65°	1561	1532	1496	1486	1491	1558
75°	711	711	701	696	691	771
85°	165	180	180	180	180	194
90°	3	12	20	26	26	12
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

TEST NUMBER: P563445

CATALOG NUMBER: SQ4-PP3-075U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5710.2	5710.2	5710.2	5710.2	5710.2
2.5°	5746.2	5699.2	5710.2	5701.6	5678.2
5°	5730.2	5676.4	5695.2	5675.2	5675.2
7.5°	5691.2	5632.5	5651.1	5631.1	5630.1
10°	5655.1	5596.4	5615.1	5595.0	5590.1
12.5°	5603.1	5544.4	5567.1	5543.0	5542.0
15°	5510.0	5456.2	5480.0	5459.7	5450.0
17.5°	5404.9	5346.2	5374.9	5346.8	5342.9
20°	5324.8	5266.1	5294.8	5254.8	5254.8
22.5°	5228.8	5170.0	5202.7	5150.7	5150.7
25°	5074.6	5015.9	5039.6	4994.4	4989.5
27.5°	4891.4	4833.7	4858.4	4807.3	4806.4
30°	4759.3	4705.5	4734.3	4679.1	4674.2
32.5°	4615.2	4565.3	4586.2	4531.0	4526.1
35°	4384.0	4339.9	4354.0	4303.8	4298.9
37.5°	4140.8	4095.7	4111.7	4068.7	4066.7
40°	3968.6	3939.2	3943.6	3908.3	3898.5
42.5°	3808.5	3775.2	3779.4	3744.4	3742.4
45°	3563.2	3538.8	3538.2	3503.2	3503.2
47.5°	3303.0	3284.4	3279.0	3249.9	3249.0
50°	3122.8	3108.2	3102.8	3077.7	3072.8
52.5°	2934.7	2927.8	2910.6	2889.6	2888.6
55°	2642.4	2632.6	2607.4	2592.2	2587.4
57.5°	2325.1	2305.5	2277.1	2255.1	2259.1
60°	2096.9	2077.3	2036.9	2026.8	2026.8
62.5°	1876.7	1853.2	1812.6	1798.8	1806.6
65°	1561.4	1532.1	1496.4	1486.5	1491.4
67.5°	1275.2	1248.7	1210.1	1210.0	1206.1
70°	1091.0	1076.3	1046.0	1046.0	1046.0
72.5°	926.8	920.0	897.8	897.7	893.8
75°	710.6	710.6	700.6	695.5	690.6
77.5°	532.5	534.4	529.5	524.3	515.5
80°	420.4	430.2	425.4	420.3	415.4
82.5°	316.3	326.1	325.3	316.3	315.3
85°	165.2	179.8	180.2	180.2	180.2
87.5°	44.6	62.0	68.2	69.4	73.3
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2



TEST NUMBER: P563445

CATALOG NUMBER: SQ4-PP3-075U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)