

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: P563457

Luminaire Tested: **SQ4-PP3-075U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563457
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-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

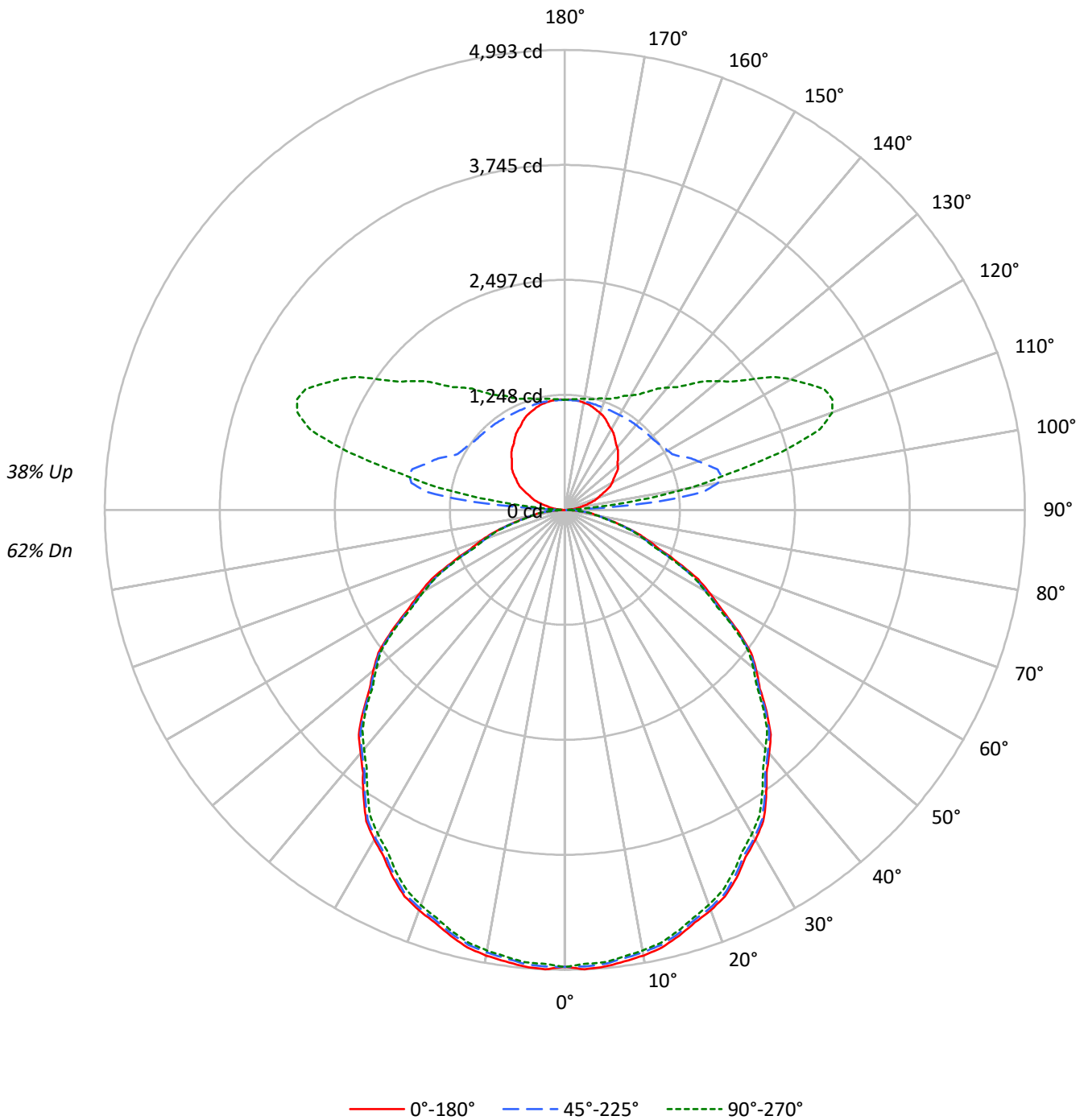
Lumens per Lamp: N/A
Luminaire Lumens: 20505.7 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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°	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°	13466	13371	13239
50°	12982	12899	12774
55°	12311	12147	12054
60°	11207	10886	10832
65°	9873	9462	9430
70°	8524	8172	8172
75°	7337	7234	7131
80°	6470	6546	6392
85°	5064	5522	5522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.2	2.3
10°-20°	1339.6	6.5
20°-30°	2006.6	9.8
30°-40°	2353.6	11.5
40°-50°	2360.9	11.5
50°-60°	2014.1	9.8
60°-70°	1313.5	6.4
70°-80°	659.0	3.2
80°-90°	185.4	0.9
90°-100°	565.0	2.8
100°-110°	1554.4	7.6
110°-120°	1604.4	7.8
120°-130°	1285.5	6.3
130°-140°	1009.6	4.9
140°-150°	773.7	3.8
150°-160°	556.3	2.7
160°-170°	340.2	1.7
170°-180°	114.7	0.6
0°-30°	3815.3	18.6
0°-40°	6168.9	30.1
0°-60°	10543.9	51.4
0°-90°	12701.9	61.9
90°-120°	3723.8	18.2
90°-150°	6792.7	33.1
90°-180°	7804.0	38.1
0°-180°	20505.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4962	4962	4962	4962	4962	
5°	4979	4932	4948	4931	4931	473
15°	4788	4741	4762	4744	4735	1351
25°	4409	4358	4379	4340	4335	2028
35°	3809	3771	3783	3740	3735	2379
45°	3096	3075	3074	3044	3044	2384
55°	2296	2288	2266	2252	2248	2040
65°	1357	1331	1300	1292	1296	1354
75°	618	618	609	604	600	670
85°	144	156	156	156	156	169
90°	2	10	18	23	23	11
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4961.5	4961.5	4961.5	4961.5	4961.5
2.5°	4992.9	4952.0	4961.5	4954.1	4933.7
5°	4978.9	4932.2	4948.5	4931.1	4931.1
7.5°	4945.0	4894.0	4910.2	4892.8	4892.0
10°	4913.7	4862.7	4878.9	4861.4	4857.2
12.5°	4868.5	4817.5	4837.2	4816.3	4815.4
15°	4787.6	4740.8	4761.5	4743.9	4735.4
17.5°	4696.3	4645.3	4670.2	4645.8	4642.4
20°	4626.7	4575.7	4600.6	4565.8	4565.8
22.5°	4543.2	4492.2	4520.6	4475.4	4475.4
25°	4409.3	4358.3	4378.9	4339.6	4335.4
27.5°	4250.1	4200.0	4221.4	4177.1	4176.2
30°	4135.3	4088.6	4113.6	4065.7	4061.4
32.5°	4010.1	3966.7	3984.9	3937.0	3932.7
35°	3809.2	3770.9	3783.1	3739.5	3735.3
37.5°	3597.9	3558.8	3572.7	3535.2	3533.5
40°	3448.3	3422.8	3426.6	3395.9	3387.4
42.5°	3309.1	3280.2	3283.9	3253.4	3251.7
45°	3096.1	3074.8	3074.3	3043.9	3043.9
47.5°	2870.0	2853.8	2849.1	2823.8	2823.0
50°	2713.4	2700.7	2696.0	2674.2	2669.9
52.5°	2549.9	2544.0	2529.0	2510.8	2509.9
55°	2296.0	2287.5	2265.5	2252.4	2248.1
57.5°	2020.3	2003.3	1978.5	1959.5	1962.9
60°	1822.0	1805.0	1769.8	1761.1	1761.1
62.5°	1630.7	1610.2	1575.0	1563.0	1569.8
65°	1356.7	1331.2	1300.2	1291.6	1295.8
67.5°	1108.0	1085.0	1051.4	1051.4	1048.0
70°	948.0	935.2	908.8	908.8	908.8
72.5°	805.3	799.4	780.1	780.0	776.6
75°	617.5	617.5	608.8	604.3	600.1
77.5°	462.7	464.4	460.1	455.5	447.9
80°	365.3	373.8	369.6	365.2	360.9
82.5°	274.8	283.3	282.6	274.8	274.0
85°	143.5	156.3	156.5	156.5	156.5
87.5°	38.8	53.9	59.2	60.3	63.7
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)