

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: P564134

Luminaire Tested: **SQ4-PR1-075U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564134
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

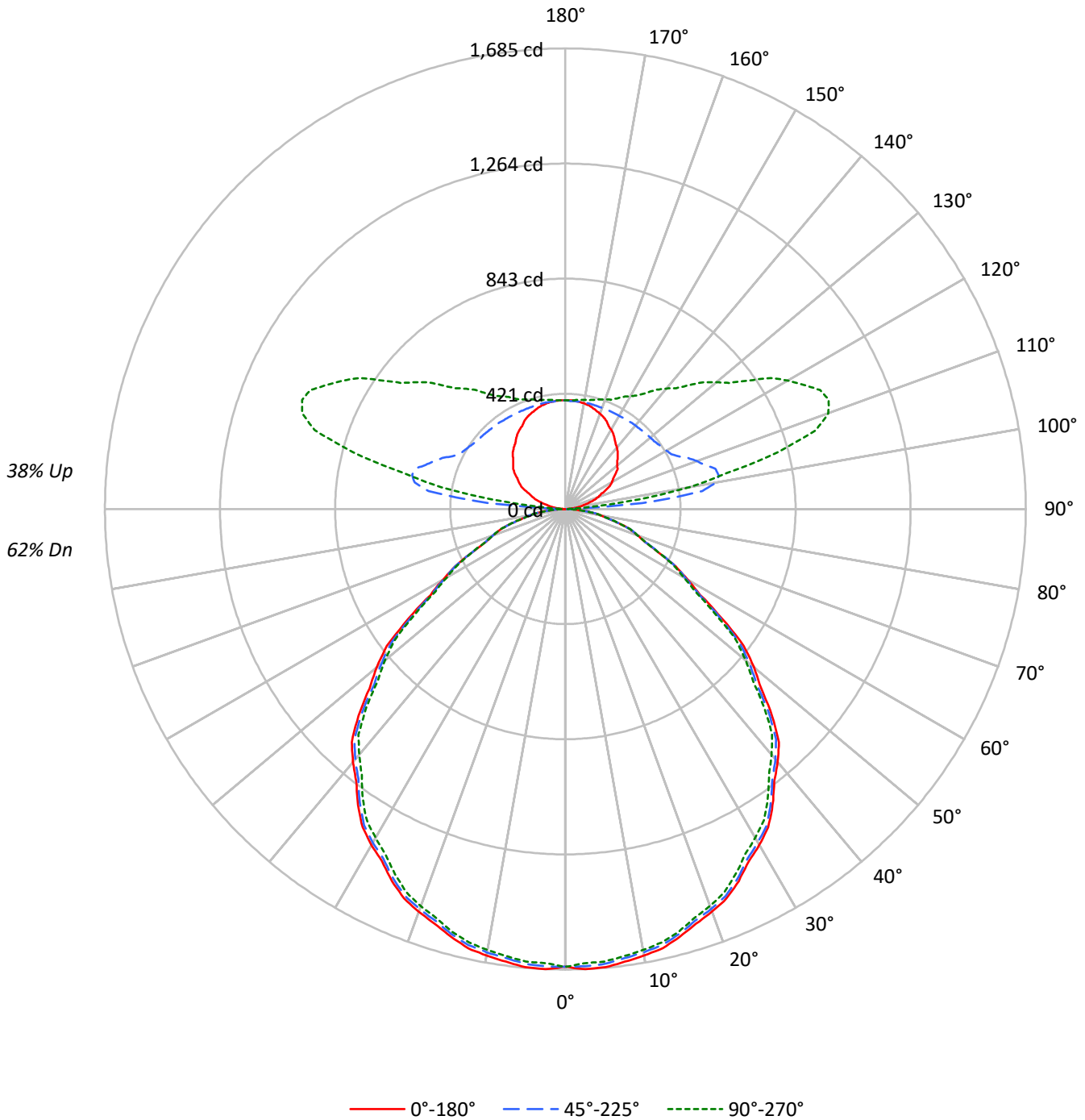
Lumens per Lamp: N/A
Luminaire Lumens: 6775.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15473	15376	15293
20°	15394	15295	15182
25°	15286	15183	15007
30°	15122	15014	14799
35°	14898	14768	14556
40°	14559	14402	14142
45°	13965	13720	13438
50°	12920	12609	12360
55°	11276	11022	10788
60°	9503	9422	9235
65°	8219	8250	8187
70°	7548	7588	7588
75°	7251	7251	7301
80°	6822	6896	6822
85°	5494	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	2.3
10°-20°	453.1	6.7
20°-30°	683.4	10.1
30°-40°	814.3	12.0
40°-50°	802.8	11.8
50°-60°	613.6	9.1
60°-70°	379.7	5.6
70°-80°	215.7	3.2
80°-90°	66.6	1.0
90°-100°	187.4	2.8
100°-110°	515.5	7.6
110°-120°	532.1	7.9
120°-130°	426.3	6.3
130°-140°	334.8	4.9
140°-150°	256.6	3.8
150°-160°	184.5	2.7
160°-170°	112.8	1.7
170°-180°	38.0	0.6
0°-30°	1294.9	19.1
0°-40°	2109.2	31.1
0°-60°	3525.6	52.0
0°-90°	4187.5	61.8
90°-120°	1235.0	18.2
90°-150°	2252.7	33.2
90°-180°	2588.0	38.2
0°-180°	6775.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1683	1665	1670	1664	1662	160
15°	1620	1603	1610	1604	1601	457
25°	1502	1483	1492	1476	1474	691
35°	1323	1307	1311	1294	1292	826
45°	1070	1056	1052	1033	1030	820
55°	701	690	685	674	671	628
65°	376	374	378	375	375	381
75°	203	203	203	205	205	215
85°	52	55	58	58	58	60
90°	1	3	6	8	8	4
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.7	1674.7	1674.7	1674.7	1674.7
2.5°	1685.1	1670.4	1674.7	1671.0	1663.1
5°	1683.3	1665.0	1670.4	1664.5	1661.7
7.5°	1670.4	1652.3	1657.7	1651.9	1650.2
10°	1658.8	1641.9	1647.3	1641.4	1638.6
12.5°	1646.1	1628.1	1634.6	1627.6	1624.8
15°	1619.9	1602.9	1609.8	1603.9	1601.1
17.5°	1591.0	1573.0	1579.8	1573.1	1569.4
20°	1567.9	1551.0	1557.8	1547.7	1546.3
22.5°	1542.6	1525.6	1532.5	1518.9	1518.6
25°	1501.6	1483.3	1491.5	1475.6	1474.2
27.5°	1452.8	1435.9	1442.7	1426.5	1424.9
30°	1419.4	1402.4	1409.3	1391.9	1389.1
32.5°	1381.3	1365.5	1371.2	1353.8	1352.2
35°	1322.7	1307.2	1311.2	1293.8	1292.4
37.5°	1256.1	1242.0	1244.3	1225.2	1223.8
40°	1208.8	1194.7	1195.8	1175.6	1174.2
42.5°	1156.8	1142.7	1141.6	1121.3	1119.9
45°	1070.3	1056.2	1051.5	1032.7	1029.9
47.5°	971.6	957.5	948.8	933.5	931.5
50°	900.1	886.0	878.5	865.4	861.1
52.5°	822.8	808.7	802.3	790.4	786.1
55°	701.0	689.7	685.2	673.6	670.7
57.5°	585.3	577.7	576.4	565.1	564.0
60°	515.0	510.7	510.6	500.5	500.5
62.5°	454.9	451.8	454.1	447.4	446.3
65°	376.5	373.7	377.9	375.0	375.0
67.5°	314.5	314.5	317.1	315.9	315.9
70°	279.8	279.8	281.3	281.3	281.3
72.5°	248.7	247.6	251.3	251.2	250.1
75°	203.4	203.4	203.4	204.8	204.8
77.5°	158.4	158.7	159.8	159.5	158.4
80°	128.4	129.8	129.8	128.4	128.4
82.5°	98.4	99.8	99.8	99.5	98.4
85°	51.9	54.7	57.7	57.7	57.7
87.5°	15.2	20.2	24.3	24.6	23.4
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)