

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: P563266

Luminaire Tested: **SQ4-PP3-025U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563266
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

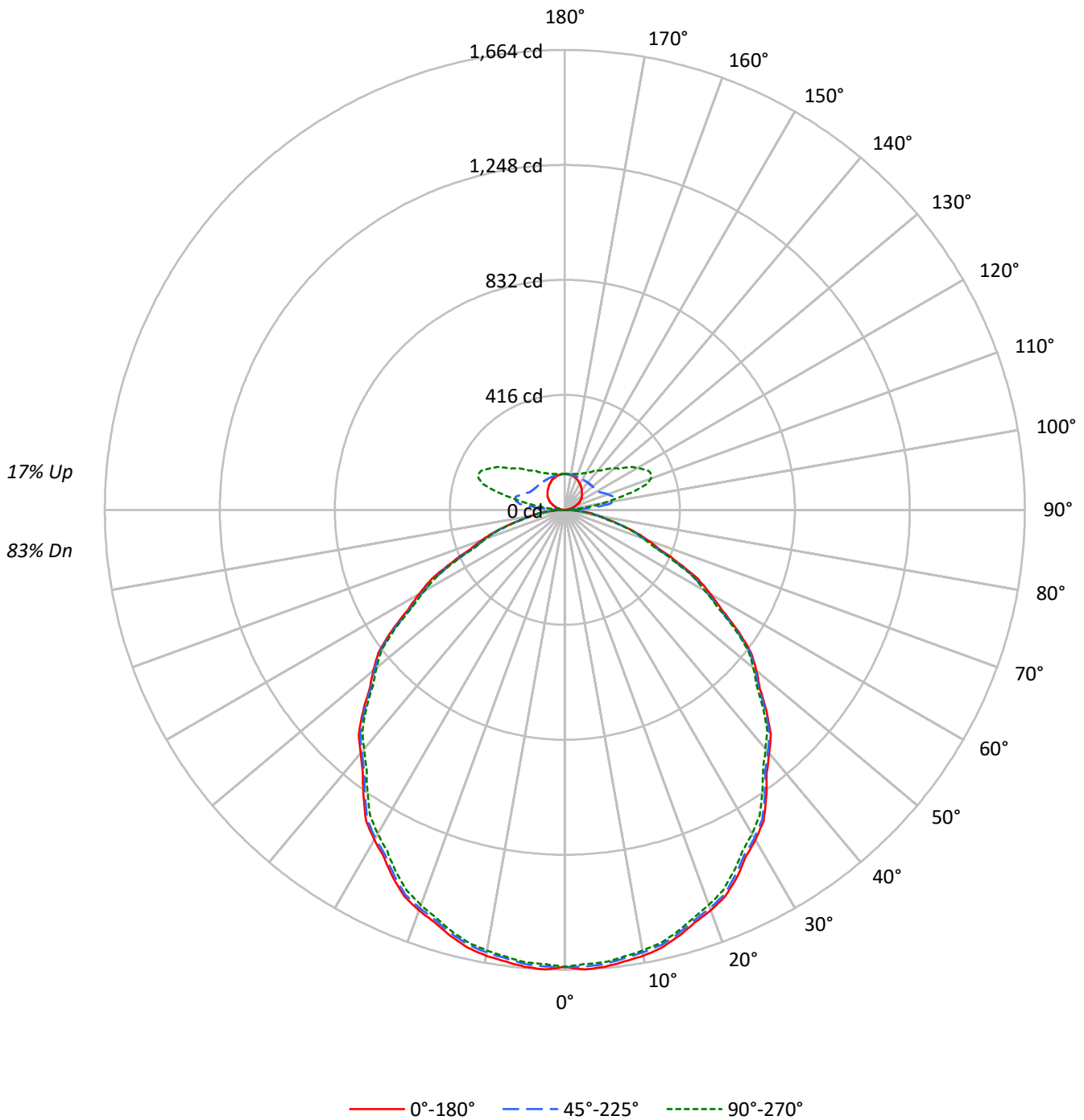
Lumens per Lamp: N/A
Luminaire Lumens: 5072.9 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15258	15258	15258
5°	15370	15277	15223
10°	15345	15236	15169
15°	15244	15160	15077
20°	15142	15056	14943
25°	14963	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13843	13757	13599
45°	13465	13371	13238
50°	12983	12899	12775
55°	12310	12148	12054
60°	11206	10885	10832
65°	9872	9462	9429
70°	8524	8171	8171
75°	7336	7233	7129
80°	6471	6546	6392
85°	5060	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.1
10°-20°	446.5	8.8
20°-30°	668.8	13.2
30°-40°	784.5	15.5
40°-50°	787.0	15.5
50°-60°	671.4	13.2
60°-70°	437.8	8.6
70°-80°	219.7	4.3
80°-90°	61.5	1.2
90°-100°	63.1	1.2
100°-110°	165.9	3.3
110°-120°	172.0	3.4
120°-130°	138.0	2.7
130°-140°	108.3	2.1
140°-150°	83.1	1.6
150°-160°	59.9	1.2
160°-170°	36.6	0.7
170°-180°	12.4	0.2
0°-30°	1271.8	25.1
0°-40°	2056.3	40.5
0°-60°	3514.6	69.3
0°-90°	4233.6	83.5
90°-120°	401.1	7.9
90°-150°	730.4	14.4
90°-180°	839.0	16.5
0°-180°	5072.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1660	1644	1650	1644	1644	158
15°	1596	1580	1587	1581	1578	450
25°	1470	1453	1460	1446	1445	676
35°	1270	1257	1261	1246	1245	793
45°	1032	1025	1025	1015	1015	795
55°	765	762	755	751	749	680
65°	452	444	433	430	432	451
75°	206	206	203	201	200	223
85°	48	52	52	52	52	56
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.8	1653.8	1653.8	1653.8	1653.8
2.5°	1664.3	1650.7	1653.8	1651.4	1644.6
5°	1659.6	1644.1	1649.5	1643.7	1643.7
7.5°	1648.3	1631.3	1636.7	1630.9	1630.7
10°	1637.9	1620.9	1626.3	1620.5	1619.1
12.5°	1622.8	1605.8	1612.4	1605.4	1605.1
15°	1595.9	1580.3	1587.2	1581.3	1578.5
17.5°	1565.4	1548.4	1556.7	1548.6	1547.5
20°	1542.2	1525.2	1533.5	1521.9	1521.9
22.5°	1514.4	1497.4	1506.9	1491.8	1491.8
25°	1469.8	1452.8	1459.6	1446.5	1445.1
27.5°	1416.7	1400.0	1407.1	1392.4	1392.1
30°	1378.4	1362.9	1371.2	1355.2	1353.8
32.5°	1336.7	1322.2	1328.3	1312.3	1310.9
35°	1269.7	1257.0	1261.0	1246.5	1245.1
37.5°	1199.3	1186.3	1190.9	1178.4	1177.8
40°	1149.4	1140.9	1142.2	1132.0	1129.1
42.5°	1103.0	1093.4	1094.6	1084.5	1083.9
45°	1032.0	1024.9	1024.8	1014.6	1014.6
47.5°	956.7	951.3	949.7	941.3	941.0
50°	904.5	900.2	898.7	891.4	890.0
52.5°	850.0	848.0	843.0	836.9	836.6
55°	765.3	762.5	755.2	750.8	749.4
57.5°	673.4	667.8	659.5	653.2	654.3
60°	607.3	601.7	589.9	587.0	587.0
62.5°	543.6	536.7	525.0	521.0	523.3
65°	452.2	443.7	433.4	430.5	431.9
67.5°	369.3	361.7	350.5	350.5	349.3
70°	316.0	311.7	302.9	302.9	302.9
72.5°	268.4	266.5	260.0	260.0	258.9
75°	205.8	205.8	202.9	201.4	200.0
77.5°	154.2	154.8	153.4	151.8	149.3
80°	121.8	124.6	123.2	121.7	120.3
82.5°	91.6	94.4	94.2	91.6	91.3
85°	47.8	52.1	52.2	52.2	52.2
87.5°	12.9	17.8	19.9	19.2	20.4
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)