

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: P563826

Luminaire Tested: **SQ4-PP3-150U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563826
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

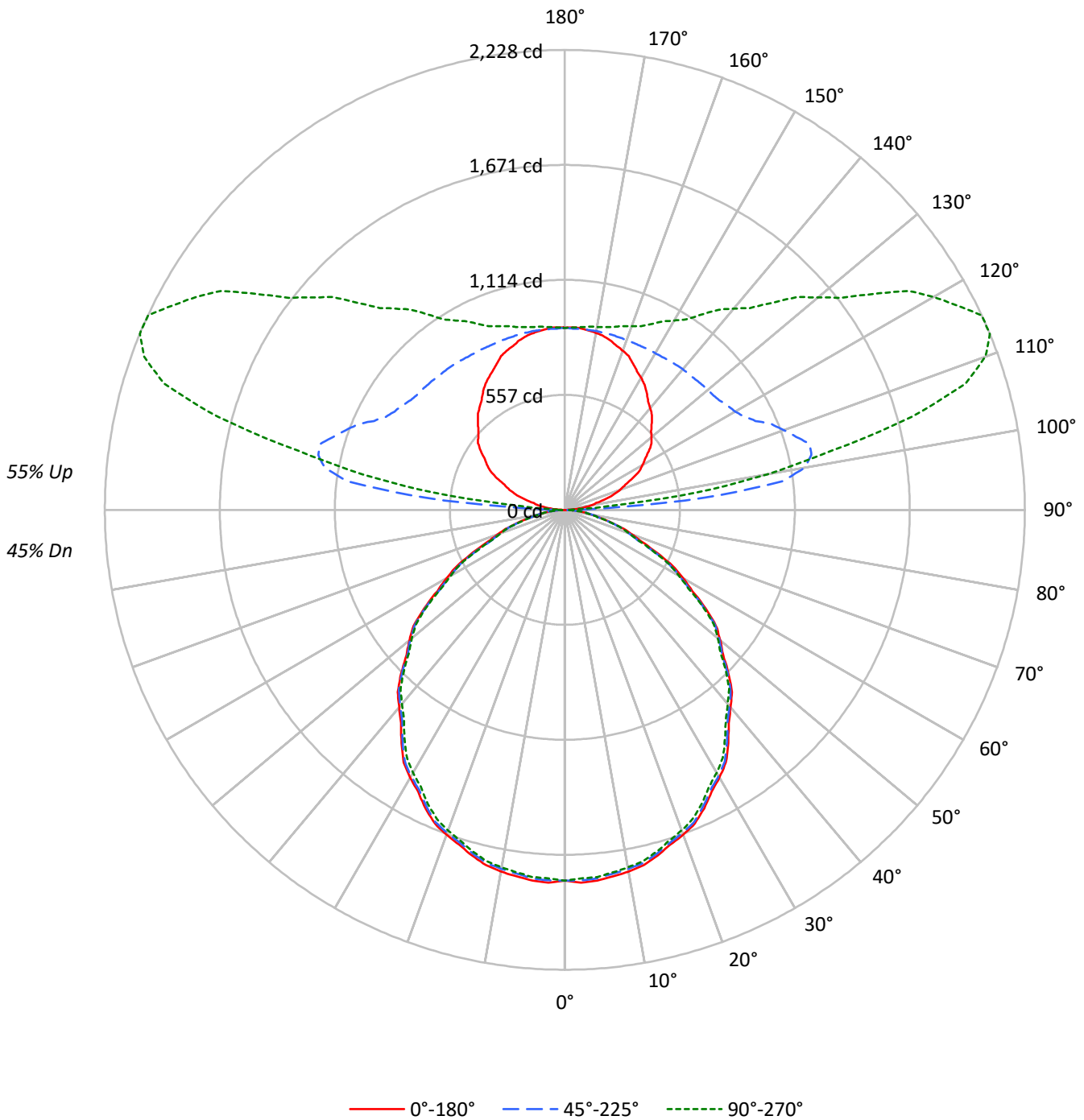
Lumens per Lamp: N/A
Luminaire Lumens: 10286.1 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16596	16537
10°	16669	16551	16477
15°	16559	16469	16378
20°	16450	16356	16233
25°	16253	16141	15982
30°	15953	15869	15668
35°	15535	15429	15234
40°	15038	14944	14773
45°	14628	14525	14381
50°	14102	14012	13877
55°	13373	13196	13095
60°	12175	11826	11767
65°	10726	10278	10243
70°	9261	8878	8878
75°	7971	7857	7746
80°	7029	7109	6944
85°	5505	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	1.7
10°-20°	485.1	4.7
20°-30°	726.6	7.1
30°-40°	852.2	8.3
40°-50°	854.9	8.3
50°-60°	729.3	7.1
60°-70°	475.6	4.6
70°-80°	238.6	2.3
80°-90°	67.9	0.7
90°-100°	409.8	4.0
100°-110°	1108.2	10.8
110°-120°	1165.1	11.3
120°-130°	946.4	9.2
130°-140°	742.3	7.2
140°-150°	569.7	5.5
150°-160°	409.7	4.0
160°-170°	250.3	2.4
170°-180°	84.4	0.8
0°-30°	1381.6	13.4
0°-40°	2233.8	21.7
0°-60°	3818.0	37.1
0°-90°	4600.2	44.7
90°-120°	2683.1	26.1
90°-150°	4941.5	48.0
90°-180°	5686.0	55.3
0°-180°	10286.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1803	1786	1792	1786	1786	171
15°	1734	1717	1724	1718	1715	489
25°	1597	1578	1586	1571	1570	734
35°	1379	1366	1370	1354	1353	862
45°	1121	1113	1113	1102	1102	863
55°	831	828	820	816	814	739
65°	491	482	471	468	469	490
75°	224	224	220	219	217	243
85°	52	57	57	57	57	61
90°	2	6	12	13	12	6
95°	64	223	682	353	210	67
105°	206	318	1229	1813	1739	217
115°	363	443	1020	1974	2228	358
125°	496	569	919	1551	1822	443
135°	595	666	894	1252	1417	460
145°	692	744	882	1072	1153	433
155°	781	812	874	961	993	360
165°	851	859	878	912	917	240
175°	883	882	879	890	888	84
180°	882	882	882	882	882	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.6	1796.6	1796.6	1796.6	1796.6
2.5°	1807.9	1793.2	1796.6	1793.9	1786.5
5°	1802.9	1786.0	1791.9	1785.6	1785.6
7.5°	1790.6	1772.1	1778.0	1771.7	1771.4
10°	1779.3	1760.8	1766.7	1760.4	1758.8
12.5°	1762.9	1744.4	1751.6	1744.0	1743.7
15°	1733.6	1716.7	1724.2	1717.8	1714.7
17.5°	1700.6	1682.1	1691.1	1682.3	1681.0
20°	1675.4	1656.9	1665.9	1653.3	1653.3
22.5°	1645.1	1626.7	1636.9	1620.6	1620.6
25°	1596.6	1578.2	1585.6	1571.4	1569.9
27.5°	1539.0	1520.8	1528.6	1512.5	1512.2
30°	1497.4	1480.5	1489.6	1472.2	1470.7
32.5°	1452.1	1436.4	1442.9	1425.6	1424.1
35°	1379.3	1365.5	1369.9	1354.1	1352.6
37.5°	1302.8	1288.6	1293.7	1280.1	1279.5
40°	1248.6	1239.4	1240.8	1229.7	1226.6
42.5°	1198.3	1187.8	1189.1	1178.1	1177.5
45°	1121.1	1113.4	1113.2	1102.2	1102.2
47.5°	1039.2	1033.4	1031.7	1022.5	1022.2
50°	982.5	977.9	976.2	968.3	966.8
52.5°	923.3	921.2	915.8	909.2	908.9
55°	831.4	828.3	820.4	815.6	814.1
57.5°	731.6	725.4	716.4	709.5	710.8
60°	659.8	653.6	640.9	637.7	637.7
62.5°	590.5	583.1	570.3	566.0	568.4
65°	491.3	482.0	470.8	467.7	469.2
67.5°	401.2	392.9	380.7	380.7	379.5
70°	343.3	338.6	329.1	329.1	329.1
72.5°	291.6	289.5	282.5	282.5	281.2
75°	223.6	223.6	220.4	218.8	217.3
77.5°	167.5	168.2	166.6	165.0	162.2
80°	132.3	135.3	133.8	132.2	130.7
82.5°	99.5	102.6	102.3	99.5	99.2
85°	52.0	56.6	56.7	56.7	56.7
87.5°	14.2	19.9	22.6	22.8	23.9
90°	1.9	5.6	12.3	13.3	12.3
92.5°	27.0	98.2	193.8	84.2	60.9
95°	63.6	223.3	681.6	352.7	209.8
97.5°	102.1	256.0	1062.5	879.3	645.7
100°	131.0	269.3	1180.9	1231.6	995.8
102.5°	157.6	287.7	1222.7	1498.7	1322.4
105°	206.0	318.3	1229.3	1813.4	1739.1
107.5°	250.8	353.3	1175.6	2009.7	2034.4
110°	285.7	378.6	1127.8	2062.4	2167.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	316.9	403.8	1083.7	2051.8	2228.0
115°	362.6	443.4	1019.6	1973.7	2228.0
117.5°	407.4	483.2	977.2	1854.3	2142.6
120°	434.8	509.0	952.2	1768.6	2062.8
122.5°	460.6	533.4	937.0	1676.8	1973.2
125°	496.5	568.9	918.9	1550.7	1821.7
127.5°	529.5	600.6	908.3	1447.8	1686.2
130°	547.7	621.1	903.7	1384.2	1599.6
132.5°	566.7	639.3	899.2	1326.9	1525.2
135°	595.2	665.8	894.2	1252.1	1417.3
137.5°	623.9	690.5	890.1	1191.4	1326.0
140°	643.6	705.8	888.5	1152.3	1272.1
142.5°	662.6	721.1	885.5	1117.1	1221.9
145°	692.0	744.0	881.9	1071.7	1153.4
147.5°	718.8	764.9	877.7	1030.7	1093.4
150°	738.6	779.4	876.2	1008.4	1058.5
152.5°	756.8	792.4	875.4	987.6	1028.9
155°	781.3	811.9	874.3	961.4	993.0
157.5°	806.7	828.1	874.5	943.1	963.9
160°	821.1	838.8	875.3	931.6	946.5
162.5°	832.5	847.2	876.0	922.4	933.5
165°	850.6	858.9	878.1	912.4	917.0
167.5°	862.9	868.7	878.3	903.8	906.0
170°	870.5	873.3	879.1	899.9	899.9
172.5°	876.6	877.1	879.1	895.4	894.6
175°	882.9	881.9	879.1	890.4	888.5
177.5°	884.9	882.7	878.9	886.4	884.2
180°	881.9	881.9	881.9	881.9	881.9

(END OF REPORT)