

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: P563442

Luminaire Tested: **SQ4-PP3-075U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563442
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-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

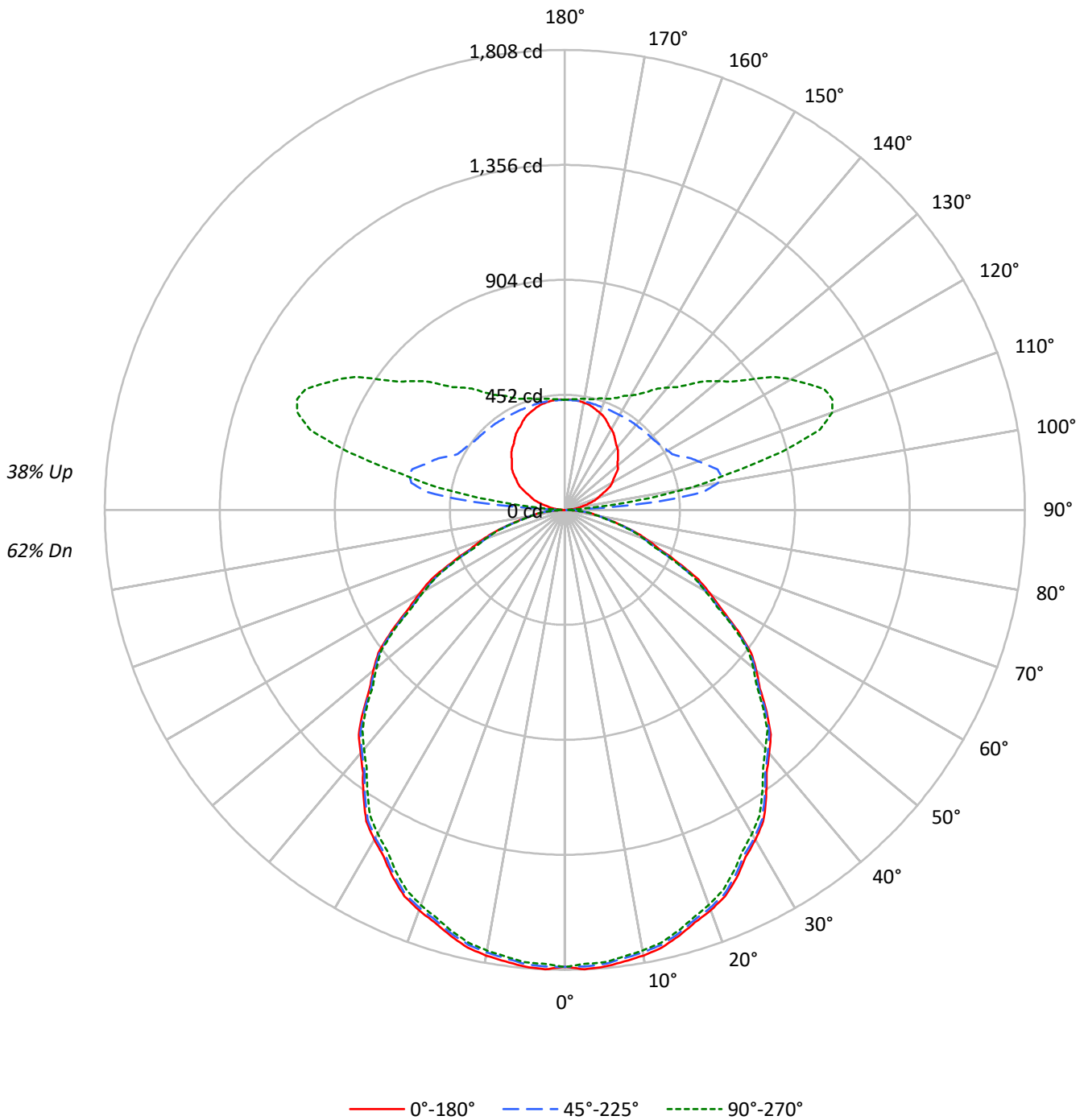
Lumens per Lamp: N/A
Luminaire Lumens: 7425.2 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	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	2.3
10°-20°	485.1	6.5
20°-30°	726.6	9.8
30°-40°	852.2	11.5
40°-50°	854.9	11.5
50°-60°	729.3	9.8
60°-70°	475.6	6.4
70°-80°	238.6	3.2
80°-90°	67.1	0.9
90°-100°	204.6	2.8
100°-110°	562.9	7.6
110°-120°	581.0	7.8
120°-130°	465.5	6.3
130°-140°	365.6	4.9
140°-150°	280.2	3.8
150°-160°	201.4	2.7
160°-170°	123.2	1.7
170°-180°	41.5	0.6
0°-30°	1381.6	18.6
0°-40°	2233.8	30.1
0°-60°	3818.0	51.4
0°-90°	4599.4	61.9
90°-120°	1348.4	18.2
90°-150°	2459.7	33.1
90°-180°	2826.0	38.1
0°-180°	7425.2	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°	1	4	6	8	8	4
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	



TEST NUMBER: P563442

CATALOG NUMBER: SQ4-PP3-075U-125D-830-1D-UNV-STD-W-4

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°	14.0	19.5	21.4	21.8	23.1
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6



TEST NUMBER: P563442

CATALOG NUMBER: SQ4-PP3-075U-125D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)