

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: P518825

Luminaire Tested: **SQ4-BB-125U-075D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518825
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-125U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

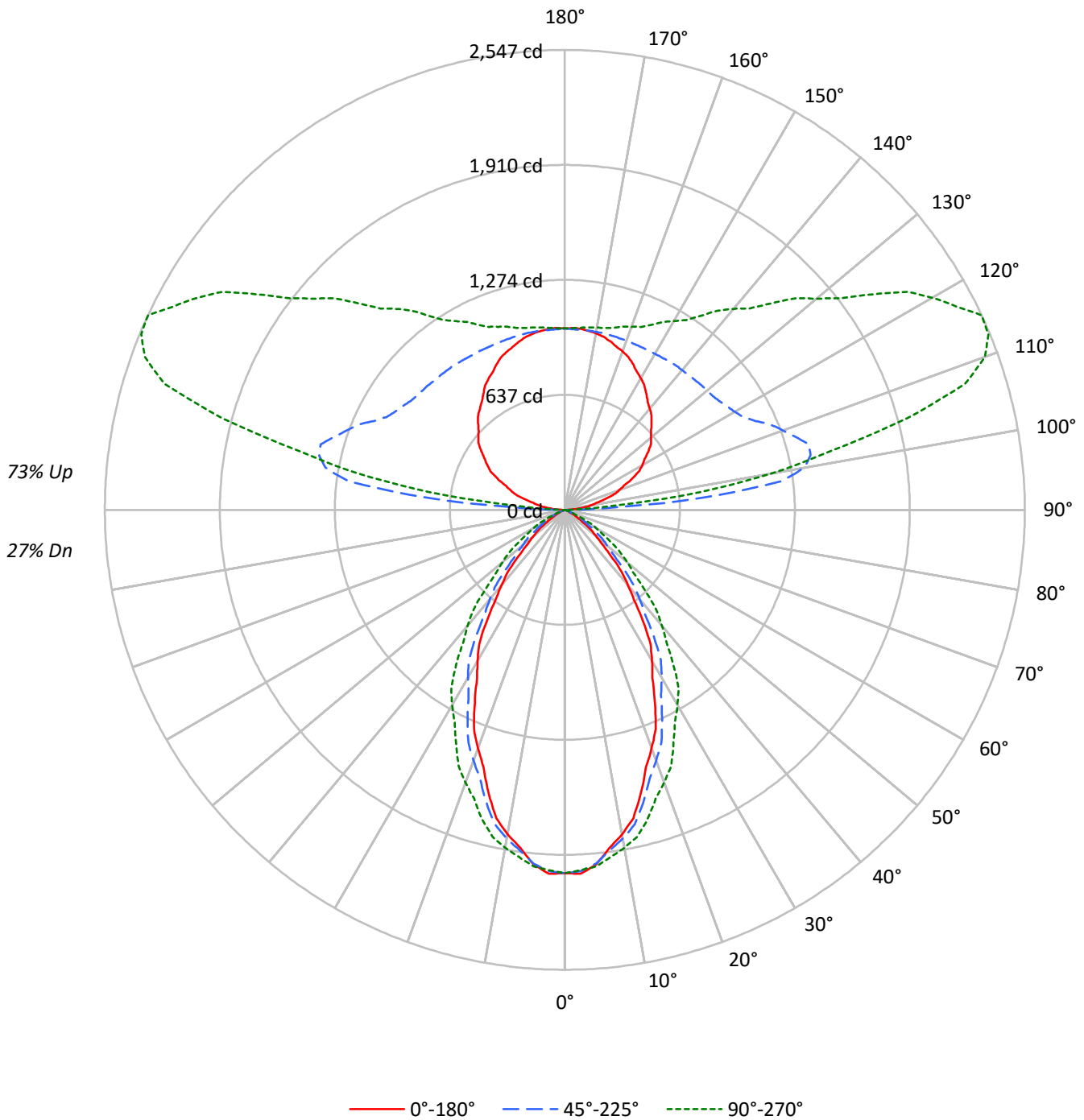
Lumens per Lamp: N/A
Luminaire Lumens: 8885.5 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	94	90	86	83	84	81	78	75	63	61	60	47	46	45	32	32	31	25				
2	86	80	74	70	77	71	67	63	56	53	51	43	41	39	30	29	28	22				
3	79	71	64	59	71	64	58	54	51	47	44	39	36	34	27	26	25	20				
4	73	63	56	51	65	57	51	47	46	42	38	35	32	30	25	24	22	18				
5	67	57	49	44	60	51	45	41	41	37	34	32	29	27	23	21	20	17				
6	62	51	44	39	56	46	40	36	37	33	30	29	26	24	21	20	18	15				
7	58	46	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14				
8	53	42	35	30	48	39	32	28	31	27	24	25	22	20	18	17	15	13				
9	50	39	32	27	45	35	29	25	29	25	22	23	20	18	17	15	14	12				
10	47	36	29	25	42	33	27	23	27	22	20	21	18	16	16	14	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12377	12377	12377
5°	12178	12148	12238
10°	11395	11546	11869
15°	10358	10687	11282
20°	9195	9673	10521
25°	8008	8642	9666
30°	6859	7612	8857
35°	5687	6462	7880
40°	4370	5167	6715
45°	3158	3913	5403
50°	2152	2916	4285
55°	1399	2109	3331
60°	802	1485	2407
65°	212	907	1218
70°	104	281	351
75°	45	24	0
80°	35	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	2.1
10°-20°	469.6	5.3
20°-30°	587.9	6.6
30°-40°	543.1	6.1
40°-50°	364.9	4.1
50°-60°	188.5	2.1
60°-70°	59.0	0.7
70°-80°	3.7	0.0
80°-90°	2.4	0.0
90°-100°	469.8	5.3
100°-110°	1265.4	14.2
110°-120°	1328.0	14.9
120°-130°	1077.7	12.1
130°-140°	845.2	9.5
140°-150°	648.9	7.3
150°-160°	466.6	5.3
160°-170°	285.0	3.2
170°-180°	96.1	1.1
0°-30°	1241.2	14.0
0°-40°	1784.2	20.1
0°-60°	2337.6	26.3
0°-90°	2402.8	27.0
90°-120°	3063.3	34.5
90°-150°	5635.0	63.4
90°-180°	6483.0	73.0
0°-180°	8885.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2012	2012	2012	2012	2012	
5°	1972	1952	1968	1974	1982	183
15°	1627	1621	1678	1735	1772	453
25°	1180	1189	1273	1360	1424	541
35°	757	776	861	962	1050	469
45°	363	385	450	537	621	285
55°	130	152	197	252	311	122
65°	15	28	62	75	84	25
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	3	8	15	17	17	5
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.3	2012.3	2012.3	2012.3	2012.3
2.5°	2016.9	1997.9	2002.9	2002.8	1997.5
5°	1972.3	1952.4	1967.5	1974.5	1982.1
7.5°	1889.0	1873.4	1902.4	1924.2	1940.0
10°	1824.4	1811.0	1848.7	1878.4	1900.3
12.5°	1749.6	1739.3	1784.8	1825.6	1853.6
15°	1626.7	1621.0	1678.3	1734.7	1771.8
17.5°	1495.1	1494.9	1560.4	1630.3	1675.0
20°	1404.8	1407.6	1477.8	1554.9	1607.3
22.5°	1314.4	1321.1	1396.0	1476.4	1536.4
25°	1179.9	1189.4	1273.4	1360.5	1424.3
27.5°	1050.6	1064.5	1152.8	1243.4	1321.1
30°	965.7	981.9	1071.8	1167.1	1247.1
32.5°	882.4	901.6	989.3	1090.0	1171.5
35°	757.4	776.4	860.6	961.9	1049.5
37.5°	628.3	647.0	729.2	828.9	923.5
40°	544.2	565.1	643.5	740.1	836.3
42.5°	467.9	488.8	562.5	657.4	748.2
45°	363.1	385.0	449.8	537.3	621.1
47.5°	276.3	300.1	356.9	436.1	512.5
50°	224.9	248.7	304.7	374.5	447.8
52.5°	183.6	206.6	257.2	323.0	390.2
55°	130.5	152.3	196.7	252.5	310.6
57.5°	90.1	109.0	148.8	195.3	240.8
60°	65.2	83.3	120.7	158.6	195.7
62.5°	43.4	60.0	96.6	125.6	150.5
65°	14.6	27.9	62.3	75.2	83.7
67.5°	7.4	8.9	32.7	34.5	37.4
70°	5.8	5.8	15.6	16.6	19.5
72.5°	4.3	4.3	6.2	8.0	8.6
75°	1.9	1.9	1.0	0.0	0.0
77.5°	1.0	1.0	0.8	0.0	0.0
80°	1.0	1.0	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	1.5	3.1	3.3	3.3
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)