

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: G3-1805-784-20

Luminaire Tested: **JW-WL-20L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1805-784-20
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: JW-WL-20L83050-1D-UNV-W2A-W-4 (3500K)
Description: JAYLUM WALL LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2001.7 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

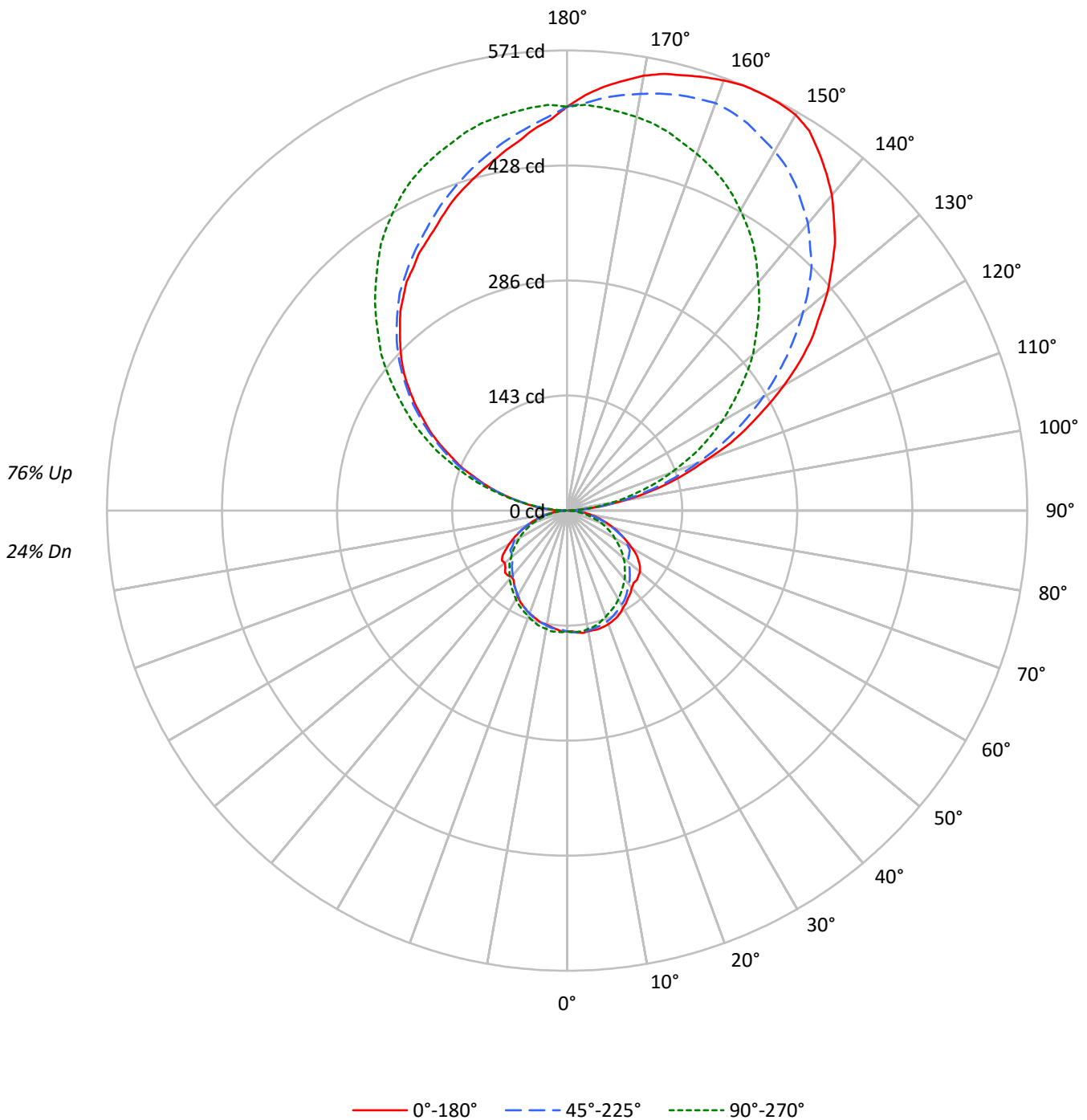
Input Watts (W): 17.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: G3-1805-784-20

CATALOG NUMBER: JW-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: G3-1805-784-20

CATALOG NUMBER: JW-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	87	84	80	81	78	75	72	60	58	56	43	42	41	28	27	26	19
2	83	76	70	65	74	68	63	58	52	49	46	38	35	33	24	23	22	16
3	76	67	59	54	67	59	53	48	46	41	38	33	30	28	21	20	18	13
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	16	11
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	17	15	13	10
6	58	46	38	33	51	41	35	30	32	27	24	23	20	18	15	13	12	8
7	53	42	34	29	47	37	31	26	29	24	21	21	18	15	14	12	10	7
8	49	38	30	25	44	34	27	23	26	21	18	19	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	14	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1615	1615	1615
5°	1642	1632	1599
10°	1661	1629	1574
15°	1694	1627	1571
20°	1718	1604	1558
25°	1734	1591	1544
30°	1728	1578	1529
35°	1735	1564	1498
40°	1756	1560	1503
45°	1857	1537	1659
50°	1976	1524	1691
55°	2027	1501	1839
60°	2002	1464	1787
65°	1936	1452	1706
70°	1888	1416	1637
75°	1830	1289	1539
80°	1860	1178	1426
85°	2223	1112	1482



TEST NUMBER: G3-1805-784-20

CATALOG NUMBER: JW-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	0.7
10°-20°	41.1	2.1
20°-30°	62.6	3.1
30°-40°	75.8	3.8
40°-50°	81.8	4.1
50°-60°	80.5	4.0
60°-70°	65.4	3.3
70°-80°	40.5	2.0
80°-90°	14.2	0.7
90°-100°	28.8	1.4
100°-110°	108.7	5.4
110°-120°	192.1	9.6
120°-130°	252.0	12.6
130°-140°	278.0	13.9
140°-150°	264.9	13.2
150°-160°	214.8	10.7
160°-170°	138.5	6.9
170°-180°	47.6	2.4
0°-30°	118.0	5.9
0°-40°	193.8	9.7
0°-60°	356.1	17.8
0°-90°	476.3	23.8
90°-120°	329.5	16.5
90°-150°	1124.4	56.2
90°-180°	1525.0	76.2
0°-180°	2001.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	150	150	150	150	150	
5°	152	152	151	147	148	15
15°	152	149	146	141	141	43
25°	146	141	134	130	130	67
35°	132	128	119	114	114	83
45°	122	110	101	97	109	94
55°	108	94	80	86	98	96
65°	76	75	57	68	67	75
75°	44	42	31	37	37	47
85°	18	16	9	12	12	17
90°	1	1	1	2	2	3
95°	21	24	21	26	28	28
105°	129	118	95	88	89	135
115°	249	227	181	164	159	246
125°	370	332	261	235	230	329
135°	470	429	335	299	293	361
145°	544	494	403	352	347	340
155°	571	530	454	398	387	264
165°	559	534	486	443	431	159
175°	528	514	502	481	475	51
180°	501	501	501	501	501	



TEST NUMBER: G3-1805-784-20

CATALOG NUMBER: JW-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	150	150	150	150	150	150	150	150	150
2.5°	150	151	151	151	151	151	148	149	150
5°	152	152	152	151	151	150	147	148	148
7.5°	153	153	152	151	151	150	147	147	146
10°	152	153	151	151	149	148	145	145	144
12.5°	152	153	150	149	148	145	143	143	143
15°	152	153	149	148	146	143	141	141	141
17.5°	151	151	148	145	143	140	139	139	138
20°	150	150	146	143	140	137	136	136	136
22.5°	148	148	144	141	137	134	133	133	133
25°	146	145	141	138	134	131	130	129	130
27.5°	143	142	138	134	131	128	126	126	127
30°	139	139	135	131	127	124	122	122	123
32.5°	136	136	132	127	123	121	118	118	118
35°	132	132	128	123	119	116	114	114	114
37.5°	129	129	123	119	115	112	109	109	109
40°	125	124	119	115	111	108	105	105	107
42.5°	122	119	115	111	106	103	101	103	109
45°	122	116	110	106	101	98	97	104	109
47.5°	120	116	105	101	97	93	92	104	104
50°	118	114	99	95	91	88	88	99	101
52.5°	114	111	96	90	86	83	87	95	102
55°	108	107	94	84	80	77	86	96	98
57.5°	102	102	92	77	74	72	80	91	90
60°	93	94	87	72	68	66	76	83	83
62.5°	84	85	82	66	63	60	75	75	75
65°	76	76	75	60	57	54	68	67	67
67.5°	68	68	66	54	51	51	60	60	59
70°	60	60	58	50	45	47	53	52	52
72.5°	52	52	50	45	38	41	44	44	45
75°	44	45	42	39	31	37	37	37	37
77.5°	37	37	34	31	25	30	29	30	30
80°	30	30	28	24	19	23	23	23	23
82.5°	23	23	21	18	13	16	17	17	17
85°	18	18	16	12	9	10	12	12	12
87.5°	13	13	11	8	5	7	7	6	6
90°	1	1	1	1	1	1	2	1	2
92.5°	5	5	6	8	8	12	14	16	16
95°	21	22	24	23	21	24	26	28	28
97.5°	45	46	44	41	37	38	38	41	42
100°	71	70	67	63	56	54	53	55	55
102.5°	100	98	91	84	75	71	71	70	71
105°	129	126	118	106	95	91	88	87	89
107.5°	156	155	145	130	117	110	108	106	106
110°	184	182	172	153	137	130	127	124	123



TEST NUMBER: G3-1805-784-20

CATALOG NUMBER: JW-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	220	214	200	179	158	151	146	143	143
115°	249	243	227	204	181	170	164	161	159
117.5°	279	273	254	228	201	190	182	181	178
120°	311	303	280	252	222	207	200	198	196
122.5°	341	331	306	274	241	224	217	215	212
125°	370	358	332	298	261	242	235	232	230
127.5°	394	386	357	320	281	259	251	248	247
130°	422	411	382	340	301	276	268	263	264
132.5°	445	436	406	361	317	292	284	279	279
135°	470	460	429	380	335	309	299	294	293
137.5°	490	482	446	398	353	324	313	309	307
140°	511	500	465	416	369	340	327	324	322
142.5°	528	516	479	432	386	355	341	338	334
145°	544	530	494	447	403	369	352	349	347
147.5°	559	543	506	460	417	383	364	361	356
150°	567	552	515	473	430	395	375	371	368
152.5°	570	559	522	484	443	409	386	381	377
155°	571	561	530	493	454	422	398	391	387
157.5°	571	560	535	500	463	433	410	402	399
160°	568	560	538	506	471	443	421	412	411
162.5°	564	558	536	510	478	453	432	423	421
165°	559	554	534	514	486	462	443	435	431
167.5°	555	549	530	514	492	471	453	447	441
170°	548	543	525	513	496	477	463	457	452
172.5°	538	534	520	512	499	484	472	468	462
175°	528	526	514	511	502	491	481	479	475
177.5°	516	515	506	508	504	496	490	491	485
180°	501	501	501	501	501	501	501	501	501

(END OF REPORT)