

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: P253634

Luminaire Tested: **JW-WL-40L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

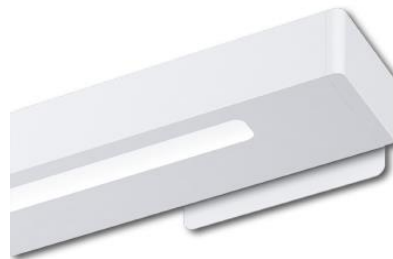
Test Information

Test Method: LM-79-08
Report Number: P253634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: JW-WL-40L83050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM WALL LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4229.7 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.26 / 1.4
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

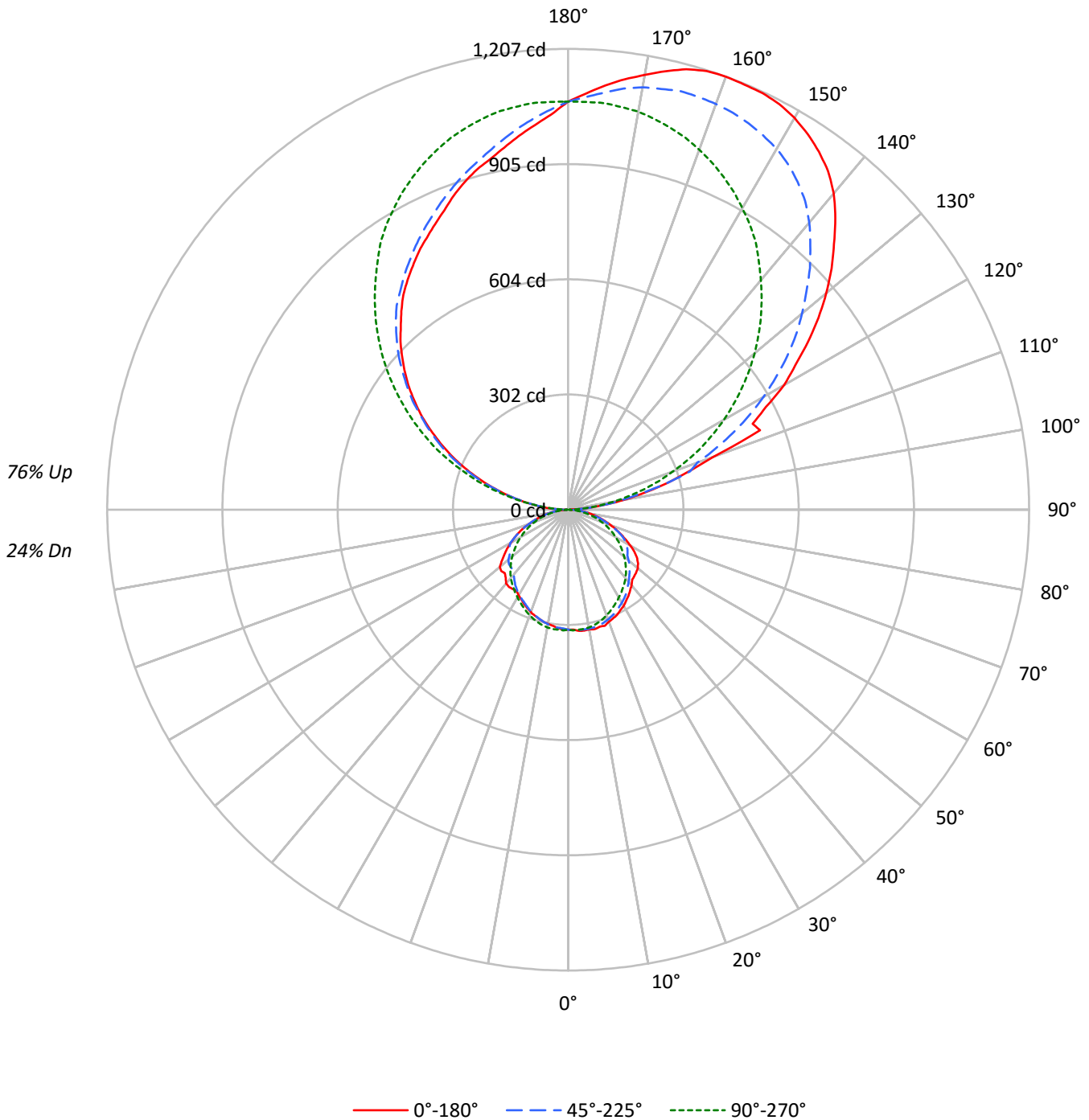
Input Watts (W): 41.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	24
1	92	87	84	80	81	78	75	72	60	57	56	43	42	40	28	27	26	19
2	83	76	70	65	74	68	63	58	52	49	46	37	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	6
9	46	34	27	22	41	31	24	20	24	19	16	17	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°	5075	5075	5075
5°	5162	5110	5042
10°	5222	5135	4977
15°	5305	5112	4934
20°	5363	5053	4907
25°	5409	4994	4862
30°	5423	4948	4831
35°	5420	4918	5001
40°	5438	4924	5326
45°	5601	4873	5357
50°	5973	4800	5868
55°	6187	4721	5737
60°	6068	4627	5590
65°	5799	4542	5475
70°	5613	4362	5164
75°	5434	4105	4835
80°	5328	3747	4537
85°	6484	3335	4724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	0.7
10°-20°	86.3	2.0
20°-30°	130.9	3.1
30°-40°	159.6	3.8
40°-50°	173.4	4.1
50°-60°	168.9	4.0
60°-70°	135.8	3.2
70°-80°	83.4	2.0
80°-90°	29.2	0.7
90°-100°	60.5	1.4
100°-110°	231.8	5.5
110°-120°	408.3	9.7
120°-130°	531.8	12.6
130°-140°	586.8	13.9
140°-150°	561.3	13.3
150°-160°	455.8	10.8
160°-170°	294.5	7.0
170°-180°	101.5	2.4
0°-30°	247.1	5.8
0°-40°	406.7	9.6
0°-60°	749.0	17.7
0°-90°	997.3	23.6
90°-120°	700.6	16.6
90°-150°	2380.6	56.3
90°-180°	3232.0	76.4
0°-180°	4229.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	314	314	314	314	314	
5°	318	316	315	310	311	30
15°	317	313	306	295	295	90
25°	304	295	280	270	273	140
35°	275	265	250	241	254	172
45°	245	227	213	212	235	190
55°	220	190	168	185	204	194
65°	152	151	119	141	143	151
75°	87	84	66	79	78	92
85°	35	31	18	24	26	33
90°	6	6	2	4	3	7
95°	49	49	47	52	56	61
105°	268	265	204	186	185	282
115°	533	476	383	346	340	542
125°	766	700	555	497	489	685
135°	984	895	714	635	621	760
145°	1144	1048	856	748	734	715
155°	1204	1117	962	846	825	555
165°	1194	1135	1035	938	923	338
175°	1116	1097	1069	1029	1011	108
180°	1069	1069	1069	1069	1069	



TEST NUMBER: P253634

CATALOG NUMBER: JW-WL-40L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	314.3	314.3	314.3	314.3	314.3	314.3	314.3	314.3	314.3
2.5°	314.3	316.4	315.3	315.3	316.4	314.3	311.1	313.2	314.3
5°	318.5	318.5	316.4	315.3	315.3	312.1	310.0	310.0	311.1
7.5°	319.6	320.6	316.4	315.3	315.3	311.1	309.0	306.8	306.8
10°	318.5	320.6	316.4	314.3	313.2	307.9	304.7	303.6	303.6
12.5°	320.6	319.6	315.3	313.2	310.0	304.7	300.5	299.4	300.5
15°	317.4	319.6	313.2	309.0	305.8	301.5	295.2	295.2	295.2
17.5°	318.5	316.4	310.0	305.8	300.5	296.2	289.8	290.9	290.9
20°	312.1	314.3	305.8	300.5	294.1	289.8	284.5	284.5	285.6
22.5°	307.9	309.0	300.5	295.2	287.7	283.5	277.1	278.2	279.2
25°	303.6	302.6	295.2	288.8	280.3	275.0	269.7	271.8	272.9
27.5°	296.2	296.2	287.7	281.3	272.9	267.5	263.3	265.4	265.4
30°	290.9	288.8	281.3	273.9	265.4	260.1	256.9	256.9	259.1
32.5°	282.4	280.3	273.9	265.4	258.0	251.6	249.5	249.5	251.6
35°	275.0	271.8	265.4	256.9	249.5	243.1	241.0	242.1	253.7
37.5°	266.5	263.3	255.9	248.4	242.1	233.6	231.5	243.1	254.8
40°	258.0	254.8	246.3	239.9	233.6	225.1	221.9	245.3	252.7
42.5°	248.4	246.3	236.8	230.4	224.0	217.6	214.5	241.0	242.1
45°	245.3	236.8	227.2	219.8	213.4	207.0	212.3	230.4	234.6
47.5°	242.1	233.6	218.7	210.2	202.8	196.4	210.2	223.0	237.8
50°	237.8	229.3	206.0	199.6	191.1	186.9	204.9	224.0	233.6
52.5°	230.4	224.0	195.4	187.9	179.4	176.2	193.2	218.7	218.7
55°	219.8	214.5	190.0	176.2	167.7	163.5	184.7	203.8	203.8
57.5°	206.0	202.8	182.6	162.4	156.1	151.8	182.6	189.0	190.0
60°	187.9	186.9	175.2	148.6	143.3	141.2	175.2	173.1	173.1
62.5°	169.9	168.8	164.6	135.9	131.7	133.8	158.2	157.1	158.2
65°	151.8	152.9	150.8	123.2	118.9	125.3	141.2	142.3	143.3
67.5°	135.9	134.8	133.8	109.4	105.1	112.5	126.3	126.3	126.3
70°	118.9	117.8	115.7	100.9	92.4	103.0	109.4	110.4	109.4
72.5°	103.0	101.9	98.7	90.2	80.7	93.4	94.5	93.4	93.4
75°	87.1	87.1	83.9	78.6	65.8	78.6	78.6	78.6	77.5
77.5°	72.2	71.1	67.9	63.7	53.1	62.6	61.6	63.7	63.7
80°	57.3	57.3	55.2	47.8	40.3	47.8	48.8	49.9	48.8
82.5°	45.7	45.7	41.4	35.0	27.6	32.9	35.0	37.2	36.1
85°	35.0	34.0	30.8	24.4	18.0	21.2	24.4	25.5	25.5
87.5°	24.4	24.4	22.3	17.0	8.5	13.8	15.9	14.9	12.7
90°	6.4	6.4	6.4	4.2	2.1	4.2	4.2	4.2	3.2
92.5°	12.7	13.8	17.0	18.0	18.0	22.3	28.7	30.8	29.7
95°	48.8	49.9	48.8	48.8	46.7	47.8	52.0	54.1	56.3
97.5°	95.6	93.4	92.4	89.2	79.6	78.6	79.6	81.8	83.9
100°	147.6	143.3	140.1	141.2	117.8	114.7	112.5	112.5	115.7
102.5°	202.8	204.9	192.2	177.3	160.3	152.9	147.6	148.6	148.6
105°	267.5	259.1	265.4	224.0	203.8	194.3	185.8	185.8	184.7
107.5°	325.9	319.6	334.4	275.0	247.4	236.8	227.2	223.0	221.9
110°	402.4	459.7	359.9	323.8	290.9	277.1	266.5	262.2	261.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	543.6	478.8	417.2	379.0	337.6	318.5	305.8	303.6	299.4
115°	533.0	509.6	475.6	427.9	383.3	359.9	346.1	340.8	339.7
117.5°	583.9	572.3	534.0	479.9	426.8	397.1	384.3	378.0	376.9
120°	652.9	636.0	590.3	529.8	470.3	438.5	421.5	417.2	415.1
122.5°	705.0	695.4	644.5	580.7	512.8	475.6	457.6	453.3	453.3
125°	766.5	754.9	699.7	627.5	555.3	511.7	496.9	490.5	489.4
127.5°	826.0	808.0	751.7	678.4	596.7	548.9	531.9	523.4	524.5
130°	882.3	864.2	799.5	724.1	637.0	583.9	566.9	558.5	557.4
132.5°	935.4	910.9	846.2	765.5	675.2	620.0	603.0	589.2	589.2
135°	984.2	961.9	895.0	802.6	713.5	654.0	634.9	623.2	621.1
137.5°	1035.2	1004.4	938.5	839.8	749.6	691.2	667.8	655.1	648.7
140°	1081.9	1047.9	982.1	879.1	784.6	722.0	698.6	684.8	679.5
142.5°	1118.0	1086.1	1019.2	914.1	819.6	754.9	722.0	714.5	709.2
145°	1144.5	1119.0	1047.9	947.0	855.7	786.7	748.5	742.1	733.6
147.5°	1166.8	1146.6	1072.3	976.8	885.5	815.4	772.9	767.6	757.0
150°	1184.9	1162.6	1091.4	1006.5	912.0	844.0	798.4	789.9	781.4
152.5°	1197.6	1179.5	1105.2	1032.0	938.5	872.7	822.8	811.1	802.6
155°	1204.0	1185.9	1116.9	1049.0	961.9	898.2	846.2	834.5	824.9
157.5°	1205.0	1188.0	1125.4	1065.9	984.2	919.4	870.6	856.8	848.3
160°	1207.2	1185.9	1130.7	1073.4	1003.3	943.8	893.9	878.0	875.9
162.5°	1205.0	1180.6	1133.9	1081.9	1021.4	964.0	917.3	902.4	900.3
165°	1194.4	1174.2	1135.0	1088.2	1035.2	986.3	938.5	925.8	922.6
167.5°	1176.4	1164.7	1128.6	1090.4	1047.9	1003.3	960.8	949.2	940.7
170°	1156.2	1153.0	1123.3	1091.4	1058.5	1020.3	984.2	972.5	963.0
172.5°	1137.1	1136.0	1112.7	1090.4	1063.8	1033.0	1007.6	994.8	987.4
175°	1115.8	1114.8	1096.7	1088.2	1069.1	1044.7	1028.8	1019.2	1010.7
177.5°	1091.4	1093.5	1081.9	1086.1	1069.1	1057.5	1049.0	1043.6	1035.2
180°	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1	1069.1

(END OF REPORT)