

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: P253423

Luminaire Tested: **J2-WL-40L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-40L83050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4167.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

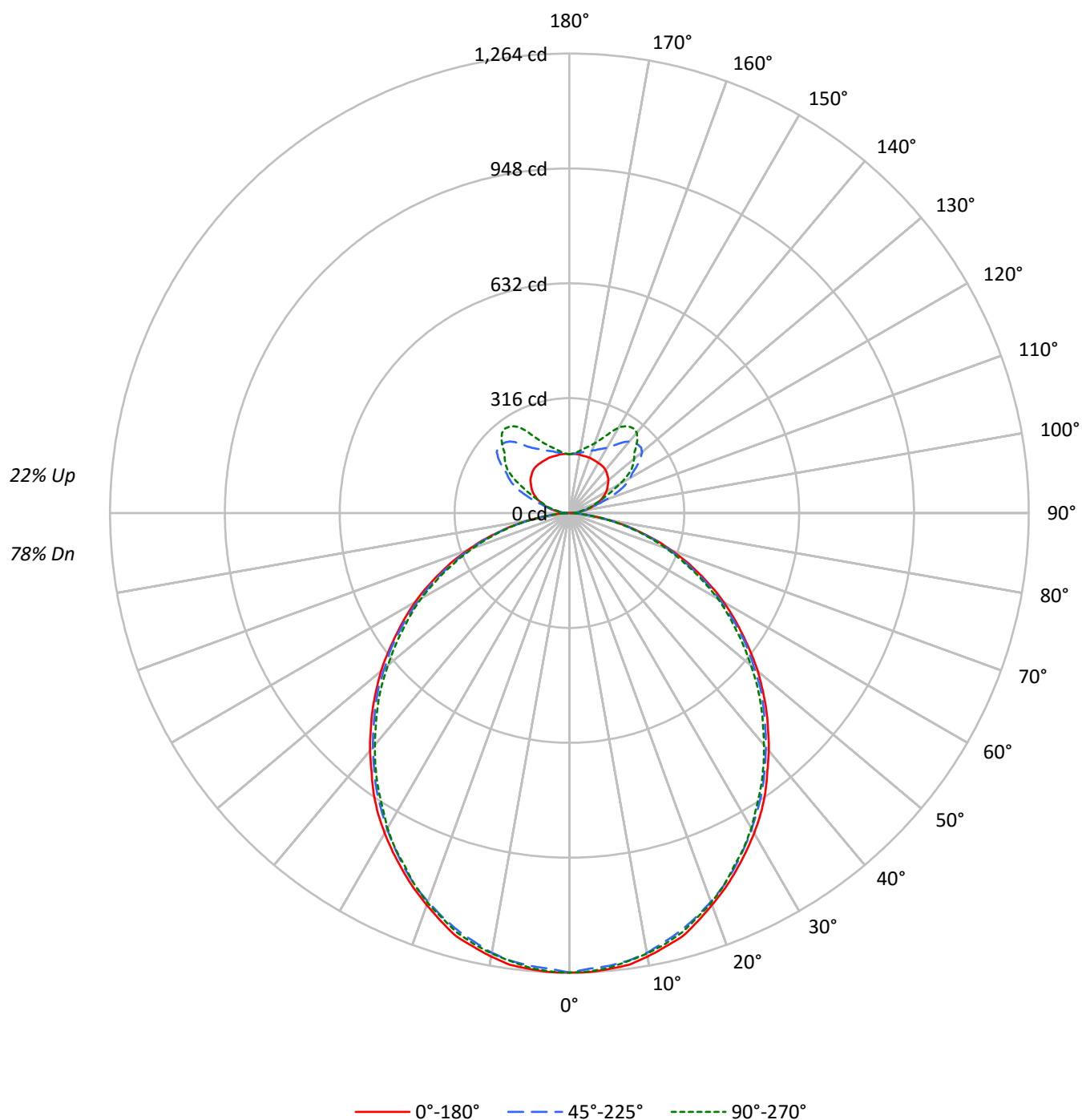
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78		
1	104	100	96	92	99	95	92	89	87	84	82	80	78	76	73	71	70	66		
2	95	87	81	75	90	83	78	73	76	72	68	70	66	63	64	61	59	55		
3	87	77	69	63	82	73	66	61	67	62	57	62	57	53	57	53	50	47		
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	47	43	40		
5	73	61	52	46	69	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24	22		
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10205	10205	10205
5°	10201	10133	10176
10°	10155	10069	10086
15°	10072	9931	9984
20°	9857	9775	9802
25°	9666	9582	9544
30°	9478	9351	9331
35°	9263	9128	9056
40°	8996	8863	8773
45°	8748	8616	8508
50°	8500	8341	8182
55°	8177	8073	7880
60°	7920	7732	7631
65°	7519	7318	7158
70°	7006	6831	6682
75°	6238	6138	6073
80°	4993	5040	4895
85°	3214	3316	3409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	2.9
10°-20°	336.8	8.1
20°-30°	496.7	11.9
30°-40°	580.2	13.9
40°-50°	582.6	14.0
50°-60°	512.8	12.3
60°-70°	381.4	9.2
70°-80°	209.0	5.0
80°-90°	47.6	1.1
90°-100°	24.0	0.6
100°-110°	76.0	1.8
110°-120°	143.2	3.4
120°-130°	180.1	4.3
130°-140°	177.4	4.3
140°-150°	142.9	3.4
150°-160°	91.5	2.2
160°-170°	50.0	1.2
170°-180°	15.8	0.4
0°-30°	952.6	22.9
0°-40°	1532.8	36.8
0°-60°	2628.2	63.1
0°-90°	3266.2	78.4
90°-120°	243.1	5.8
90°-150°	743.5	17.8
90°-180°	901.0	21.6
0°-180°	4167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1259	1256	1250	1256	1256	120
15°	1205	1198	1188	1199	1195	339
25°	1085	1083	1076	1075	1072	500
35°	940	935	926	923	919	587
45°	766	764	755	746	745	591
55°	581	583	574	565	560	521
65°	394	394	383	379	375	390
75°	200	200	197	194	195	213
85°	35	36	36	38	37	44
90°	1	3	4	5	4	3
95°	22	21	21	23	23	22
105°	63	101	65	65	59	67
115°	101	201	158	121	112	100
125°	128	206	227	210	208	115
135°	147	184	266	269	260	114
145°	158	178	232	279	289	99
155°	160	173	194	221	233	74
165°	162	167	176	184	187	46
175°	163	163	164	165	165	16
180°	162	162	162	162	162	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1264.1	1262.0	1254.6	1260.9	1262.0
5°	1258.8	1255.7	1250.4	1255.7	1255.7
7.5°	1253.6	1248.3	1242.0	1245.1	1243.0
10°	1238.8	1236.7	1228.3	1232.5	1230.4
12.5°	1222.0	1218.8	1208.3	1216.7	1214.6
15°	1205.1	1197.8	1188.3	1198.8	1194.6
17.5°	1176.7	1174.6	1164.1	1173.6	1167.3
20°	1147.3	1146.2	1137.8	1142.0	1140.9
22.5°	1117.8	1114.6	1109.4	1110.4	1109.4
25°	1085.2	1083.1	1075.7	1074.6	1071.5
27.5°	1051.5	1050.4	1039.9	1039.9	1038.8
30°	1016.7	1013.6	1003.1	1003.1	1001.0
32.5°	979.9	974.6	965.2	963.1	957.8
35°	939.9	934.6	926.2	923.1	918.9
37.5°	894.6	893.6	883.1	879.9	876.8
40°	853.6	850.4	841.0	837.8	832.5
42.5°	809.4	809.4	797.8	790.4	788.3
45°	766.2	764.1	754.7	746.2	745.2
47.5°	721.0	719.9	712.6	699.9	699.9
50°	676.8	674.7	664.1	655.7	651.5
52.5°	628.4	631.5	621.0	611.5	606.3
55°	581.0	583.1	573.6	565.2	559.9
57.5°	535.7	536.8	526.3	519.9	515.7
60°	490.5	489.4	478.9	473.6	472.6
62.5°	443.1	441.0	432.6	427.3	422.1
65°	393.6	393.6	383.1	378.9	374.7
67.5°	347.3	344.2	336.8	332.6	327.3
70°	296.8	295.8	289.4	286.3	283.1
72.5°	251.6	248.4	245.2	241.0	237.9
75°	200.0	200.0	196.8	193.7	194.7
77.5°	155.8	154.7	151.6	149.5	149.5
80°	107.4	109.5	108.4	107.4	105.3
82.5°	69.5	70.5	67.4	67.4	68.4
85°	34.7	35.8	35.8	37.9	36.8
87.5°	11.6	12.6	14.7	15.8	15.8
90°	1.1	3.2	4.2	5.3	4.2
92.5°	11.6	12.6	15.8	15.8	15.8
95°	22.1	21.1	21.1	23.2	23.2
97.5°	32.6	33.7	26.3	27.4	27.4
100°	43.2	52.6	40.0	32.6	32.6
102.5°	53.7	76.8	52.6	46.3	42.1
105°	63.2	101.0	65.3	65.3	58.9
107.5°	72.6	123.1	82.1	68.4	68.4
110°	82.1	152.6	106.3	82.1	77.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.6	181.0	132.6	98.9	92.6
115°	101.0	201.0	157.9	121.0	111.6
117.5°	109.5	209.5	177.9	146.3	133.7
120°	116.8	212.6	192.6	172.6	160.0
122.5°	123.1	211.6	205.2	196.8	186.3
125°	128.4	206.3	227.3	210.5	208.4
127.5°	133.7	198.9	246.3	222.1	221.0
130°	140.0	191.6	261.0	230.5	232.6
132.5°	144.2	186.3	267.3	250.5	241.0
135°	147.4	184.2	266.3	269.4	260.0
137.5°	151.6	182.1	263.1	281.0	276.8
140°	154.7	182.1	256.8	286.3	288.4
142.5°	156.8	180.0	246.3	285.2	292.6
145°	157.9	177.9	231.6	278.9	289.4
147.5°	158.9	176.8	217.9	269.4	283.1
150°	158.9	174.7	207.3	254.7	271.6
152.5°	160.0	173.7	200.0	236.8	252.6
155°	160.0	172.6	193.7	221.0	232.6
157.5°	161.0	170.5	187.4	208.4	216.8
160°	162.1	169.5	183.1	197.9	204.2
162.5°	162.1	168.4	178.9	190.5	194.7
165°	162.1	167.4	175.8	184.2	187.4
167.5°	162.1	166.3	171.6	178.9	181.0
170°	163.1	165.2	168.4	173.7	174.7
172.5°	163.1	164.2	166.3	169.5	169.5
175°	163.1	163.1	164.2	165.2	165.2
177.5°	163.1	163.1	163.1	163.1	163.1
180°	162.1	162.1	162.1	162.1	162.1

(END OF REPORT)