

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: P253334

Luminaire Tested: **J3-CL-50L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-CL-50L840-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

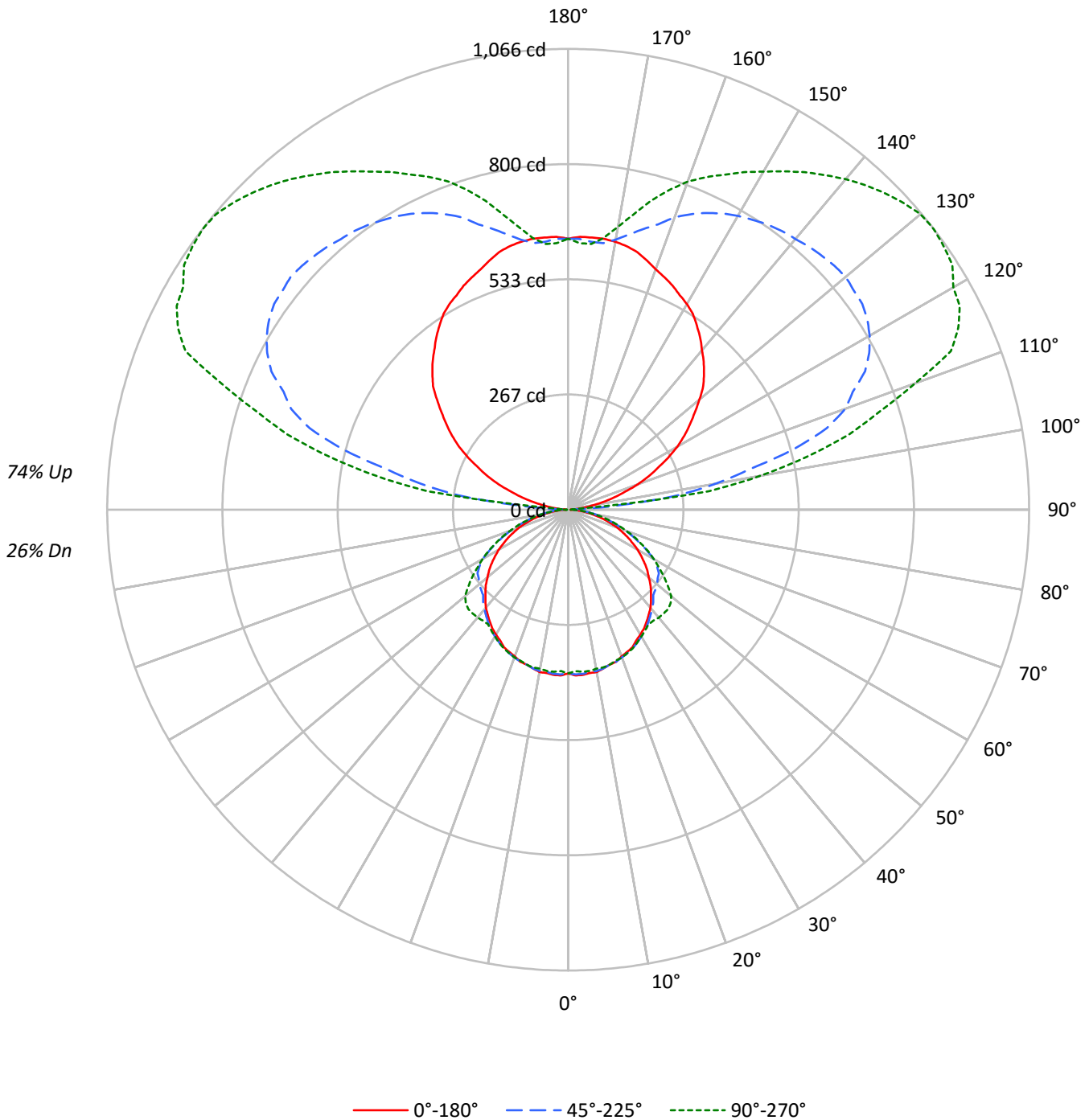
Lumens per Lamp: N/A
Luminaire Lumens: 4954.9 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 33.5
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



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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	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3057	3057	3057
5°	3109	3089	3049
10°	3125	3104	3063
15°	3102	3102	3102
20°	3102	3124	3124
25°	3127	3150	3150
30°	3109	3155	3155
35°	3114	3164	3188
40°	3118	3171	3436
45°	3092	3178	3722
50°	3054	3370	3906
55°	3036	3600	3811
60°	2997	3684	3684
65°	2923	3498	3545
70°	2842	3314	3373
75°	2661	3129	3206
80°	2450	3031	2915
85°	2325	3251	2788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	0.7
10°-20°	104.8	2.1
20°-30°	162.0	3.3
30°-40°	200.9	4.1
40°-50°	224.8	4.5
50°-60°	219.7	4.4
60°-70°	173.3	3.5
70°-80°	104.9	2.1
80°-90°	37.3	0.8
90°-100°	128.7	2.6
100°-110°	497.7	10.0
110°-120°	684.0	13.8
120°-130°	692.0	14.0
130°-140°	613.3	12.4
140°-150°	485.0	9.8
150°-160°	338.7	6.8
160°-170°	191.7	3.9
170°-180°	60.1	1.2
0°-30°	302.9	6.1
0°-40°	503.8	10.2
0°-60°	948.2	19.1
0°-90°	1263.8	25.5
90°-120°	1310.4	26.4
90°-150°	3100.7	62.6
90°-180°	3691.0	74.5
0°-180°	4954.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	379	379	379	379	379	
5°	384	379	381	379	376	36
15°	371	369	371	371	371	105
25°	351	346	354	354	354	161
35°	316	316	321	324	324	198
45°	271	273	278	314	326	209
55°	216	218	256	271	271	193
65°	153	160	183	186	186	151
75°	85	100	100	103	103	90
85°	25	40	35	33	30	26
90°	5	15	12	2	2	5
95°	20	100	120	25	25	25
105°	110	356	539	622	672	117
115°	228	482	757	938	996	228
125°	344	557	830	1011	1061	307
135°	444	612	830	993	1036	342
145°	519	627	805	923	953	325
155°	572	612	757	840	855	264
165°	617	614	672	730	740	174
175°	632	624	622	622	617	60
180°	627	627	627	627	627	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	378.7	378.7	378.7	378.7	378.7
2.5°	383.7	378.7	381.2	378.7	373.6
5°	383.7	378.7	381.2	378.7	376.2
7.5°	381.2	378.7	378.7	376.2	376.2
10°	381.2	376.2	378.7	376.2	373.6
12.5°	376.2	373.6	376.2	373.6	373.6
15°	371.1	368.6	371.1	371.1	371.1
17.5°	368.6	363.6	368.6	368.6	366.1
20°	361.1	358.6	363.6	363.6	363.6
22.5°	356.1	353.6	358.6	358.6	358.6
25°	351.1	346.1	353.6	353.6	353.6
27.5°	341.0	341.0	346.1	348.6	346.1
30°	333.5	331.0	338.5	341.0	338.5
32.5°	326.0	323.5	331.0	333.5	331.0
35°	316.0	316.0	321.0	323.5	323.5
37.5°	305.9	305.9	311.0	313.5	323.5
40°	295.9	295.9	300.9	316.0	326.0
42.5°	283.4	283.4	290.9	313.5	326.0
45°	270.8	273.3	278.4	313.5	326.0
47.5°	258.3	260.8	273.3	311.0	321.0
50°	243.2	248.3	268.3	303.4	311.0
52.5°	230.7	233.2	260.8	290.9	290.9
55°	215.7	218.2	255.8	270.8	270.8
57.5°	200.6	203.1	243.2	248.3	248.3
60°	185.6	188.1	228.2	228.2	228.2
62.5°	168.0	173.0	205.6	208.1	208.1
65°	153.0	160.5	183.1	185.6	185.6
67.5°	135.4	148.0	163.0	165.5	165.5
70°	120.4	135.4	140.4	142.9	142.9
72.5°	102.8	117.9	120.4	122.9	122.9
75°	85.3	100.3	100.3	102.8	102.8
77.5°	67.7	80.2	82.8	82.8	82.8
80°	52.7	60.2	65.2	62.7	62.7
82.5°	37.6	47.6	47.6	47.6	45.1
85°	25.1	40.1	35.1	32.6	30.1
87.5°	15.0	35.1	20.1	17.6	17.6
90°	5.0	15.0	12.5	2.5	2.5
92.5°	10.0	25.1	12.5	10.0	7.5
95°	20.1	100.3	120.4	25.1	25.1
97.5°	37.6	168.0	258.3	305.9	328.5
100°	57.7	250.8	346.1	423.8	451.4
102.5°	82.8	303.4	426.3	524.1	564.2
105°	110.3	356.1	539.2	621.9	672.1
107.5°	137.9	396.2	626.9	719.7	754.8
110°	170.5	428.8	682.1	842.6	852.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.6	453.9	712.2	902.8	957.9
115°	228.2	481.5	757.3	937.9	995.6
117.5°	260.8	501.5	784.9	957.9	1020.6
120°	290.9	519.1	805.0	983.0	1028.2
122.5°	318.5	539.2	820.0	1003.1	1053.2
125°	343.6	556.7	830.1	1010.6	1060.8
127.5°	368.6	571.8	832.6	1013.1	1065.8
130°	396.2	586.8	837.6	1010.6	1063.3
132.5°	423.8	601.9	835.1	1003.1	1050.7
135°	443.9	611.9	830.1	993.1	1035.7
137.5°	463.9	619.4	825.0	978.0	1018.1
140°	481.5	624.4	817.5	960.5	998.1
142.5°	501.5	626.9	812.5	942.9	975.5
145°	519.1	626.9	805.0	922.8	952.9
147.5°	536.7	624.4	794.9	902.8	927.9
150°	549.2	619.4	784.9	882.7	902.8
152.5°	559.2	614.4	772.4	860.1	880.2
155°	571.8	611.9	757.3	840.1	855.1
157.5°	581.8	611.9	739.8	817.5	832.6
160°	591.8	611.9	719.7	794.9	807.5
162.5°	604.4	611.9	692.1	762.3	774.9
165°	616.9	614.4	672.1	729.7	739.8
167.5°	624.4	614.4	652.0	689.6	699.7
170°	629.4	619.4	634.5	662.0	664.5
172.5°	631.9	624.4	621.9	634.5	634.5
175°	631.9	624.4	621.9	621.9	616.9
177.5°	631.9	626.9	626.9	624.4	616.9
180°	626.9	626.9	626.9	626.9	626.9

(END OF REPORT)