

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: P253462

Luminaire Tested: **J3-CL-60L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253462
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-60L83050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6137.7 lumens
Efficiency: N/A
Efficacy: 132.6 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

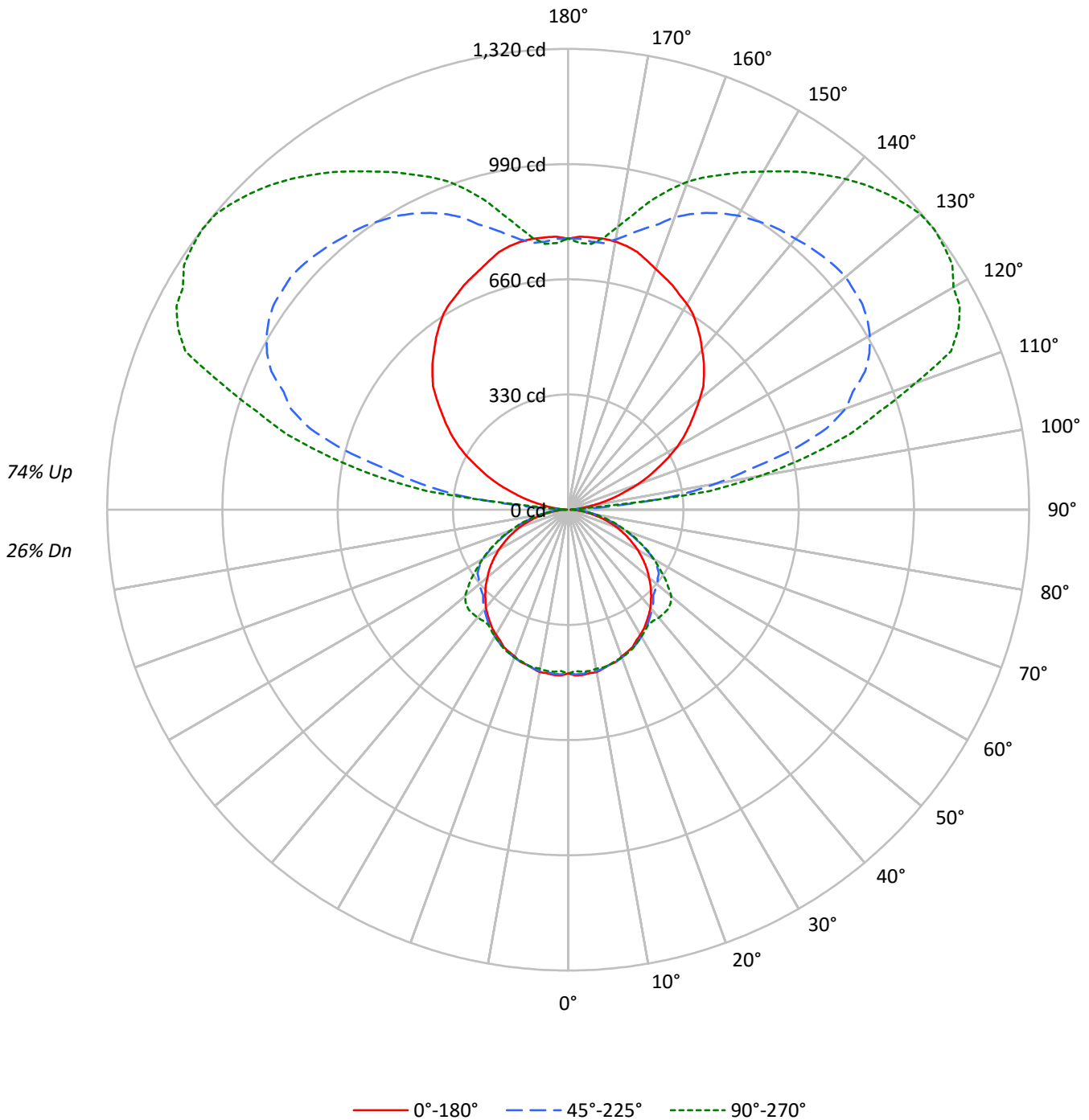
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3787	3787	3787
5°	3852	3827	3776
10°	3871	3845	3794
15°	3842	3842	3842
20°	3843	3869	3869
25°	3874	3901	3901
30°	3851	3910	3910
35°	3857	3918	3949
40°	3862	3929	4255
45°	3830	3937	4610
50°	3784	4175	4838
55°	3759	4459	4722
60°	3712	4564	4564
65°	3620	4332	4392
70°	3519	4107	4180
75°	3294	3877	3974
80°	3031	3756	3612
85°	2881	4029	3455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	0.7
10°-20°	129.8	2.1
20°-30°	200.6	3.3
30°-40°	248.9	4.1
40°-50°	278.5	4.5
50°-60°	272.1	4.4
60°-70°	214.7	3.5
70°-80°	129.9	2.1
80°-90°	46.3	0.8
90°-100°	159.4	2.6
100°-110°	616.5	10.0
110°-120°	847.3	13.8
120°-130°	857.2	14.0
130°-140°	759.7	12.4
140°-150°	600.8	9.8
150°-160°	419.5	6.8
160°-170°	237.4	3.9
170°-180°	74.4	1.2
0°-30°	375.2	6.1
0°-40°	624.0	10.2
0°-60°	1174.6	19.1
0°-90°	1565.4	25.5
90°-120°	1623.2	26.4
90°-150°	3840.9	62.6
90°-180°	4572.0	74.5
0°-180°	6137.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	475	469	472	469	466	45
15°	460	457	460	460	460	130
25°	435	429	438	438	438	200
35°	391	391	398	401	401	245
45°	336	339	345	388	404	259
55°	267	270	317	336	336	239
65°	190	199	227	230	230	187
75°	106	124	124	127	127	112
85°	31	50	44	40	37	33
90°	6	19	16	3	3	6
95°	25	124	149	31	31	31
105°	137	441	668	770	832	145
115°	283	596	938	1162	1233	282
125°	426	690	1028	1252	1314	381
135°	550	758	1028	1230	1283	424
145°	643	777	997	1143	1180	402
155°	708	758	938	1041	1059	327
165°	764	761	832	904	916	215
175°	783	774	770	770	764	75
180°	777	777	777	777	777	



TEST NUMBER: P253462

CATALOG NUMBER: J3-CL-60L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	469.1	469.1	469.1	469.1	469.1
2.5°	475.3	469.1	472.2	469.1	462.8
5°	475.3	469.1	472.2	469.1	465.9
7.5°	472.2	469.1	469.1	465.9	465.9
10°	472.2	465.9	469.1	465.9	462.8
12.5°	465.9	462.8	465.9	462.8	462.8
15°	459.7	456.6	459.7	459.7	459.7
17.5°	456.6	450.4	456.6	456.6	453.5
20°	447.3	444.2	450.4	450.4	450.4
22.5°	441.1	438.0	444.2	444.2	444.2
25°	434.9	428.7	438.0	438.0	438.0
27.5°	422.5	422.5	428.7	431.8	428.7
30°	413.1	410.0	419.4	422.5	419.4
32.5°	403.8	400.7	410.0	413.1	410.0
35°	391.4	391.4	397.6	400.7	400.7
37.5°	379.0	379.0	385.2	388.3	400.7
40°	366.5	366.5	372.8	391.4	403.8
42.5°	351.0	351.0	360.3	388.3	403.8
45°	335.5	338.6	344.8	388.3	403.8
47.5°	319.9	323.1	338.6	385.2	397.6
50°	301.3	307.5	332.4	375.9	385.2
52.5°	285.8	288.9	323.1	360.3	360.3
55°	267.1	270.2	316.8	335.5	335.5
57.5°	248.5	251.6	301.3	307.5	307.5
60°	229.9	233.0	282.7	282.7	282.7
62.5°	208.1	214.3	254.7	257.8	257.8
65°	189.5	198.8	226.8	229.9	229.9
67.5°	167.7	183.3	201.9	205.0	205.0
70°	149.1	167.7	174.0	177.1	177.1
72.5°	127.4	146.0	149.1	152.2	152.2
75°	105.6	124.3	124.3	127.4	127.4
77.5°	83.9	99.4	102.5	102.5	102.5
80°	65.2	74.6	80.8	77.7	77.7
82.5°	46.6	59.0	59.0	59.0	55.9
85°	31.1	49.7	43.5	40.4	37.3
87.5°	18.6	43.5	24.9	21.7	21.7
90°	6.2	18.6	15.5	3.1	3.1
92.5°	12.4	31.1	15.5	12.4	9.3
95°	24.9	124.3	149.1	31.1	31.1
97.5°	46.6	208.1	319.9	379.0	406.9
100°	71.4	310.6	428.7	525.0	559.1
102.5°	102.5	375.9	528.1	649.2	698.9
105°	136.7	441.1	667.9	770.4	832.5
107.5°	170.8	490.8	776.6	891.5	935.0
110°	211.2	531.2	844.9	1043.7	1056.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	248.5	562.2	882.2	1118.3	1186.6
115°	282.7	596.4	938.1	1161.8	1233.2
117.5°	323.1	621.3	972.3	1186.6	1264.3
120°	360.3	643.0	997.1	1217.7	1273.6
122.5°	394.5	667.9	1015.8	1242.5	1304.6
125°	425.6	689.6	1028.2	1251.8	1314.0
127.5°	456.6	708.2	1031.3	1254.9	1320.2
130°	490.8	726.9	1037.5	1251.8	1317.1
132.5°	525.0	745.5	1034.4	1242.5	1301.5
135°	549.8	757.9	1028.2	1230.1	1282.9
137.5°	574.7	767.3	1022.0	1211.5	1261.2
140°	596.4	773.5	1012.7	1189.7	1236.3
142.5°	621.3	776.6	1006.4	1168.0	1208.4
145°	643.0	776.6	997.1	1143.1	1180.4
147.5°	664.7	773.5	984.7	1118.3	1149.3
150°	680.3	767.3	972.3	1093.4	1118.3
152.5°	692.7	761.0	956.7	1065.5	1090.3
155°	708.2	757.9	938.1	1040.6	1059.3
157.5°	720.7	757.9	916.4	1012.7	1031.3
160°	733.1	757.9	891.5	984.7	1000.2
162.5°	748.6	757.9	857.3	944.3	959.8
165°	764.2	761.0	832.5	903.9	916.4
167.5°	773.5	761.0	807.6	854.2	866.7
170°	779.7	767.3	785.9	820.1	823.2
172.5°	782.8	773.5	770.4	785.9	785.9
175°	782.8	773.5	770.4	770.4	764.2
177.5°	782.8	776.6	776.6	773.5	764.2
180°	776.6	776.6	776.6	776.6	776.6

(END OF REPORT)