

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: P253469

Luminaire Tested: **J3-CL-80L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253469
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-80L83050-1D-UNV-W2A-W-4 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8118.4 lumens
Efficiency: N/A
Efficacy: 124.1 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

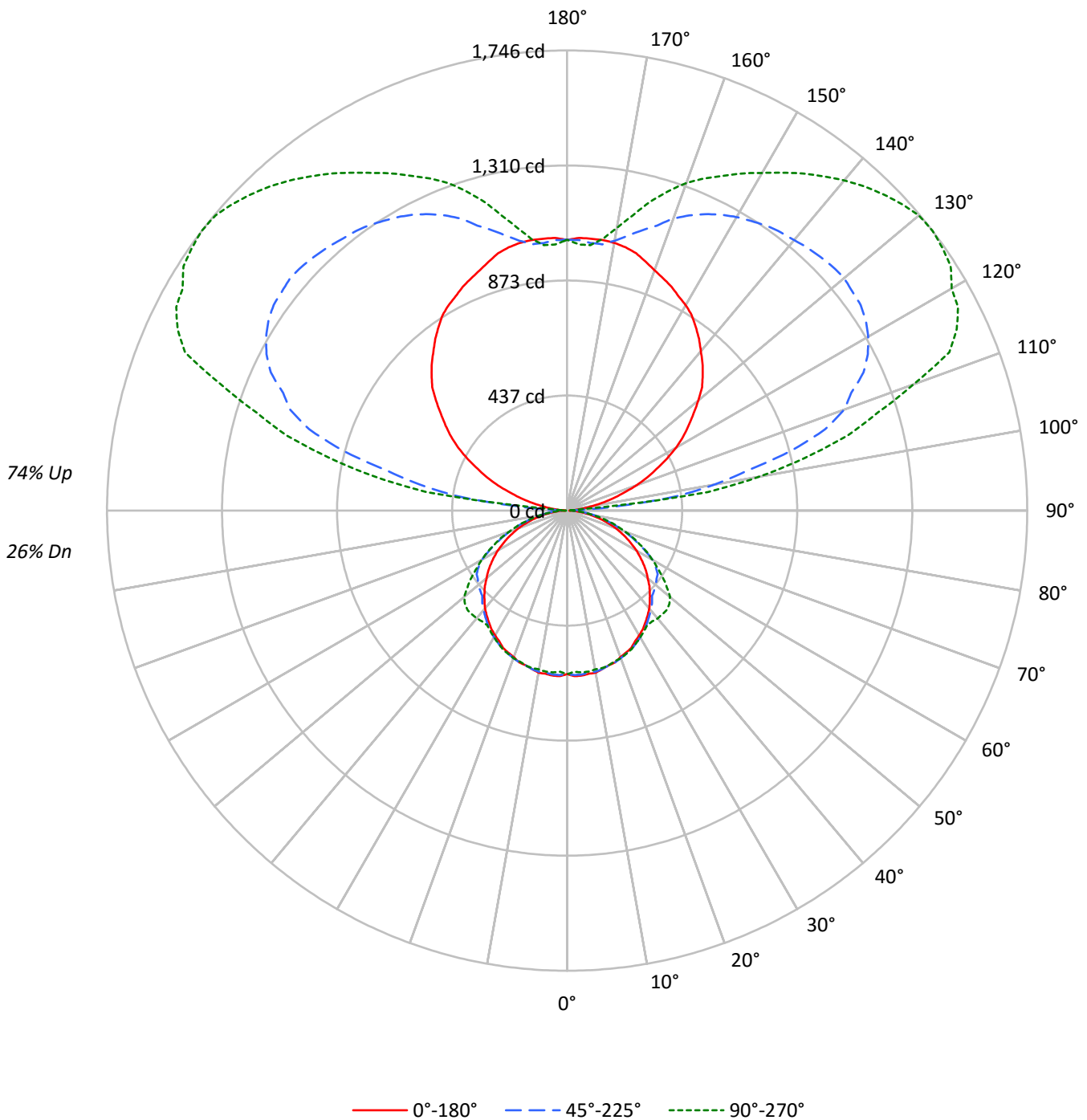
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5008	5008	5008
5°	5094	5061	4994
10°	5119	5086	5018
15°	5082	5082	5082
20°	5083	5119	5119
25°	5124	5160	5160
30°	5094	5171	5171
35°	5102	5183	5223
40°	5109	5197	5629
45°	5066	5207	6098
50°	5006	5521	6399
55°	4974	5899	6245
60°	4908	6037	6037
65°	4787	5729	5807
70°	4655	5431	5528
75°	4357	5128	5256
80°	4012	4965	4775
85°	3807	5326	4566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	0.7
10°-20°	171.7	2.1
20°-30°	265.4	3.3
30°-40°	329.2	4.1
40°-50°	368.3	4.5
50°-60°	359.9	4.4
60°-70°	283.9	3.5
70°-80°	171.8	2.1
80°-90°	61.2	0.8
90°-100°	210.9	2.6
100°-110°	815.5	10.0
110°-120°	1120.7	13.8
120°-130°	1133.8	14.0
130°-140°	1004.8	12.4
140°-150°	794.7	9.8
150°-160°	554.9	6.8
160°-170°	314.0	3.9
170°-180°	98.4	1.2
0°-30°	496.2	6.1
0°-40°	825.4	10.2
0°-60°	1553.7	19.1
0°-90°	2070.6	25.5
90°-120°	2147.1	26.4
90°-150°	5080.4	62.6
90°-180°	6048.0	74.5
0°-180°	8118.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	629	620	624	620	616	60
15°	608	604	608	608	608	172
25°	575	567	579	579	579	264
35°	518	518	526	530	530	324
45°	444	448	456	514	534	342
55°	353	358	419	444	444	316
65°	251	263	300	304	304	247
75°	140	164	164	168	168	148
85°	41	66	58	53	49	43
90°	8	25	20	4	4	8
95°	33	164	197	41	41	41
105°	181	583	883	1019	1101	192
115°	374	789	1241	1537	1631	373
125°	563	912	1360	1656	1738	504
135°	727	1002	1360	1627	1697	560
145°	850	1027	1319	1512	1561	532
155°	937	1002	1241	1376	1401	432
165°	1011	1007	1101	1196	1212	284
175°	1035	1023	1019	1019	1011	99
180°	1027	1027	1027	1027	1027	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.4	620.4	620.4	620.4	620.4
2.5°	628.6	620.4	624.5	620.4	612.2
5°	628.6	620.4	624.5	620.4	616.3
7.5°	624.5	620.4	620.4	616.3	616.3
10°	624.5	616.3	620.4	616.3	612.2
12.5°	616.3	612.2	616.3	612.2	612.2
15°	608.1	604.0	608.1	608.1	608.1
17.5°	604.0	595.8	604.0	604.0	599.9
20°	591.7	587.6	595.8	595.8	595.8
22.5°	583.4	579.3	587.6	587.6	587.6
25°	575.2	567.0	579.3	579.3	579.3
27.5°	558.8	558.8	567.0	571.1	567.0
30°	546.5	542.4	554.7	558.8	554.7
32.5°	534.1	530.0	542.4	546.5	542.4
35°	517.7	517.7	525.9	530.0	530.0
37.5°	501.3	501.3	509.5	513.6	530.0
40°	484.8	484.8	493.1	517.7	534.1
42.5°	464.3	464.3	476.6	513.6	534.1
45°	443.7	447.9	456.1	513.6	534.1
47.5°	423.2	427.3	447.9	509.5	525.9
50°	398.6	406.8	439.6	497.2	509.5
52.5°	378.0	382.1	427.3	476.6	476.6
55°	353.4	357.5	419.1	443.7	443.7
57.5°	328.7	332.8	398.6	406.8	406.8
60°	304.0	308.2	373.9	373.9	373.9
62.5°	275.3	283.5	336.9	341.0	341.0
65°	250.6	263.0	299.9	304.0	304.0
67.5°	221.9	242.4	267.1	271.2	271.2
70°	197.2	221.9	230.1	234.2	234.2
72.5°	168.5	193.1	197.2	201.3	201.3
75°	139.7	164.4	164.4	168.5	168.5
77.5°	110.9	131.5	135.6	135.6	135.6
80°	86.3	98.6	106.8	102.7	102.7
82.5°	61.6	78.1	78.1	78.1	74.0
85°	41.1	65.7	57.5	53.4	49.3
87.5°	24.7	57.5	32.9	28.8	28.8
90°	8.2	24.7	20.5	4.1	4.1
92.5°	16.4	41.1	20.5	16.4	12.3
95°	32.9	164.4	197.2	41.1	41.1
97.5°	61.6	275.3	423.2	501.3	538.2
100°	94.5	410.9	567.0	694.4	739.6
102.5°	135.6	497.2	698.5	858.7	924.5
105°	180.8	583.4	883.4	1019.0	1101.2
107.5°	226.0	649.2	1027.2	1179.2	1236.7
110°	279.4	702.6	1117.6	1380.5	1397.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	328.7	743.7	1166.9	1479.2	1569.6
115°	373.9	788.9	1240.9	1536.7	1631.2
117.5°	427.3	821.8	1286.0	1569.6	1672.3
120°	476.6	850.5	1318.9	1610.6	1684.6
122.5°	521.8	883.4	1343.6	1643.5	1725.7
125°	562.9	912.1	1360.0	1655.8	1738.0
127.5°	604.0	936.8	1364.1	1659.9	1746.2
130°	649.2	961.5	1372.3	1655.8	1742.1
132.5°	694.4	986.1	1368.2	1643.5	1721.6
135°	727.3	1002.5	1360.0	1627.1	1696.9
137.5°	760.1	1014.9	1351.8	1602.4	1668.2
140°	788.9	1023.1	1339.5	1573.7	1635.3
142.5°	821.8	1027.2	1331.2	1544.9	1598.3
145°	850.5	1027.2	1318.9	1512.0	1561.3
147.5°	879.3	1023.1	1302.5	1479.2	1520.2
150°	899.8	1014.9	1286.0	1446.3	1479.2
152.5°	916.3	1006.7	1265.5	1409.3	1442.2
155°	936.8	1002.5	1240.9	1376.4	1401.1
157.5°	953.2	1002.5	1212.1	1339.5	1364.1
160°	969.7	1002.5	1179.2	1302.5	1323.0
162.5°	990.2	1002.5	1134.0	1249.1	1269.6
165°	1010.8	1006.7	1101.2	1195.7	1212.1
167.5°	1023.1	1006.7	1068.3	1129.9	1146.3
170°	1031.3	1014.9	1039.5	1084.7	1088.8
172.5°	1035.4	1023.1	1019.0	1039.5	1039.5
175°	1035.4	1023.1	1019.0	1019.0	1010.8
177.5°	1035.4	1027.2	1027.2	1023.1	1010.8
180°	1027.2	1027.2	1027.2	1027.2	1027.2

(END OF REPORT)