

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: P234606

Luminaire Tested: **CTA-F-5050-30L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-30L830-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (672) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5806.5 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: General Diffuse

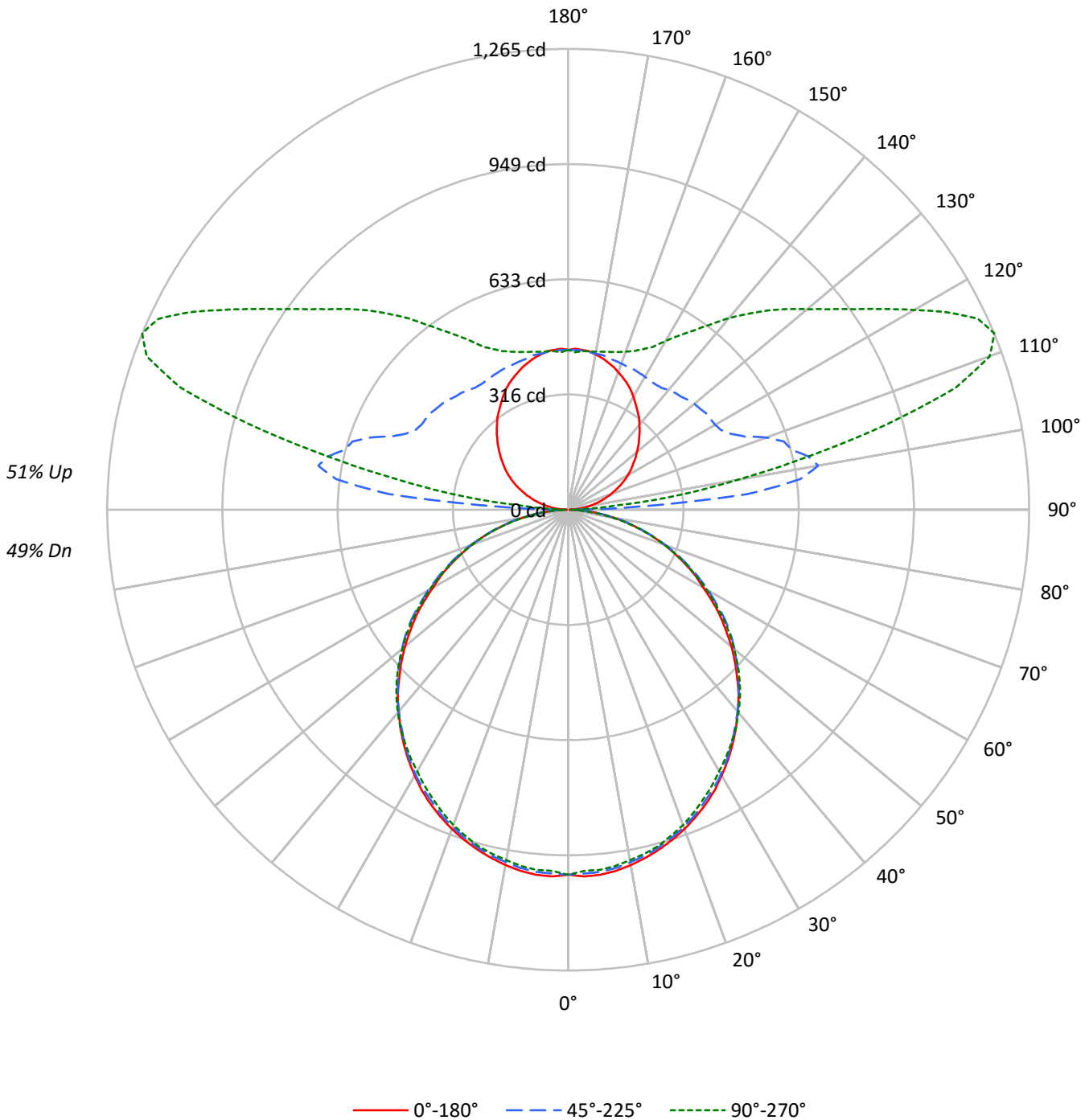
Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	49
1	97	93	89	85	90	86	82	79	72	70	68		60	58	57		49	48	46	41
2	88	81	75	69	81	75	69	65	63	59	56		52	50	47		43	41	39	34
3	81	71	63	57	74	66	59	54	56	51	46		46	43	39		38	35	33	29
4	74	63	55	48	67	58	51	45	49	44	39		41	37	34		33	30	28	24
5	67	56	47	41	62	52	44	39	44	38	34		37	32	29		30	27	24	21
6	62	50	42	36	57	46	39	34	39	34	29		33	29	25		27	24	21	18
7	57	45	37	31	53	42	35	29	36	30	26		30	26	22		25	21	19	16
8	53	41	33	28	49	38	31	26	33	27	23		27	23	20		23	19	17	14
9	50	37	30	24	46	35	28	23	30	24	20		25	21	18		21	18	15	13
10	46	34	27	22	43	32	25	21	27	22	18		23	19	16		19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3235	3235	3235
5°	3260	3235	3216
10°	3247	3222	3203
15°	3227	3208	3195
20°	3205	3185	3165
25°	3179	3152	3124
30°	3140	3126	3090
35°	3100	3085	3078
40°	3048	3048	3064
45°	2995	3021	3038
50°	2937	2995	2985
55°	2869	2955	2923
60°	2769	2869	2832
65°	2718	2777	2747
70°	2651	2687	2651
75°	2519	2567	2519
80°	2360	2432	2289
85°	2067	2138	1852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	1.6
10°-20°	270.6	4.7
20°-30°	407.3	7.0
30°-40°	489.0	8.4
40°-50°	509.0	8.8
50°-60°	461.5	7.9
60°-70°	356.9	6.1
70°-80°	216.1	3.7
80°-90°	64.8	1.1
90°-100°	231.7	4.0
100°-110°	602.1	10.4
110°-120°	609.3	10.5
120°-130°	475.9	8.2
130°-140°	375.1	6.5
140°-150°	280.2	4.8
150°-160°	198.4	3.4
160°-170°	122.4	2.1
170°-180°	41.7	0.7
0°-30°	772.5	13.3
0°-40°	1261.5	21.7
0°-60°	2231.9	38.4
0°-90°	2869.7	49.4
90°-120°	1443.1	24.9
90°-150°	2574.3	44.3
90°-180°	2937.0	50.6
0°-180°	5806.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1006	996	998	994	992	95
15°	965	958	960	960	956	272
25°	892	883	885	881	877	411
35°	786	779	783	781	781	492
45°	656	652	662	665	665	506
55°	510	510	525	521	519	454
65°	356	360	364	362	360	352
75°	202	206	206	204	202	215
85°	56	58	58	54	50	61
90°	4	8	8	8	8	7
95°	29	90	494	217	135	30
105°	92	164	635	1048	906	97
115°	158	206	492	1067	1240	155
125°	217	252	462	808	960	195
135°	275	302	438	671	773	213
145°	331	348	419	544	600	207
155°	383	388	425	464	486	176
165°	419	419	431	444	448	118
175°	440	436	438	438	436	42
180°	438	438	438	438	438	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.9	1001.9	1001.9	1001.9	1001.9
2.5°	1007.7	1000.0	1000.0	998.1	992.3
5°	1005.8	996.2	998.1	994.2	992.3
7.5°	1000.0	990.4	992.3	988.5	986.5
10°	990.4	980.8	982.7	980.8	976.9
12.5°	978.8	971.2	973.1	971.2	967.3
15°	965.4	957.7	959.6	959.6	955.8
17.5°	950.0	942.3	944.2	944.2	938.5
20°	932.7	925.0	926.9	925.0	921.2
22.5°	913.5	905.8	907.7	903.8	900.0
25°	892.3	882.7	884.6	880.8	876.9
27.5°	869.2	859.6	863.5	857.7	853.8
30°	842.3	834.6	838.5	830.8	828.8
32.5°	815.4	807.7	811.5	805.8	805.8
35°	786.5	778.8	782.7	780.8	780.8
37.5°	755.8	750.0	751.9	753.8	755.8
40°	723.1	719.2	723.1	725.0	726.9
42.5°	692.3	686.5	692.3	696.2	698.1
45°	655.8	651.9	661.5	665.4	665.4
47.5°	621.2	619.2	628.8	630.8	630.8
50°	584.6	584.6	596.2	596.2	594.2
52.5°	546.2	548.1	561.5	559.6	557.7
55°	509.6	509.6	525.0	521.2	519.2
57.5°	469.2	469.2	482.7	478.8	476.9
60°	428.8	434.6	444.2	438.5	438.5
62.5°	394.2	396.2	403.8	400.0	398.1
65°	355.8	359.6	363.5	361.5	359.6
67.5°	317.3	323.1	325.0	321.2	319.2
70°	280.8	284.6	284.6	282.7	280.8
72.5°	242.3	246.2	244.2	242.3	240.4
75°	201.9	205.8	205.8	203.8	201.9
77.5°	165.4	167.3	167.3	165.4	161.5
80°	126.9	130.8	130.8	126.9	123.1
82.5°	92.3	94.2	92.3	90.4	86.5
85°	55.8	57.7	57.7	53.8	50.0
87.5°	25.0	26.9	23.1	21.2	19.2
90°	3.8	7.7	7.7	7.7	7.7
92.5°	15.4	57.7	182.7	51.9	32.7
95°	28.8	90.4	494.2	217.3	134.6
97.5°	44.2	111.5	642.3	405.8	307.7
100°	59.6	142.3	696.2	611.5	469.2
102.5°	75.0	157.7	675.0	846.2	675.0
105°	92.3	163.5	634.6	1048.1	905.8
107.5°	107.7	167.3	621.2	1155.8	1115.4
110°	125.0	178.8	578.8	1178.8	1230.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.4	192.3	525.0	1142.3	1265.4
115°	157.7	205.8	492.3	1067.3	1240.4
117.5°	173.1	217.3	473.1	986.5	1173.1
120°	188.5	230.8	465.4	915.4	1096.2
122.5°	203.8	242.3	463.5	857.7	1025.0
125°	217.3	251.9	461.5	807.7	959.6
127.5°	232.7	263.5	455.8	769.2	903.8
130°	246.2	275.0	451.9	736.5	855.8
132.5°	261.5	288.5	446.2	703.8	815.4
135°	275.0	301.9	438.5	671.2	773.1
137.5°	290.4	313.5	434.6	636.5	728.8
140°	303.8	325.0	428.8	603.8	686.5
142.5°	319.2	336.5	421.2	569.2	640.4
145°	330.8	348.1	419.2	544.2	600.0
147.5°	344.2	359.6	419.2	519.2	567.3
150°	357.7	369.2	421.2	490.4	534.6
152.5°	371.2	378.8	423.1	475.0	503.8
155°	382.7	388.5	425.0	463.5	486.5
157.5°	392.3	396.2	425.0	455.8	471.2
160°	401.9	405.8	426.9	451.9	461.5
162.5°	411.5	413.5	428.8	448.1	453.8
165°	419.2	419.2	430.8	444.2	448.1
167.5°	426.9	425.0	434.6	440.4	444.2
170°	432.7	430.8	434.6	440.4	440.4
172.5°	438.5	434.6	436.5	438.5	438.5
175°	440.4	436.5	438.5	438.5	436.5
177.5°	442.3	438.5	438.5	438.5	432.7
180°	438.5	438.5	438.5	438.5	438.5

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