

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: METALUX

Report Number: P229335

Luminaire Tested: **14ALNG-LD5-23-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36085)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD5-23-UNV-L840-CD1-U
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (84)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2345.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.3
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

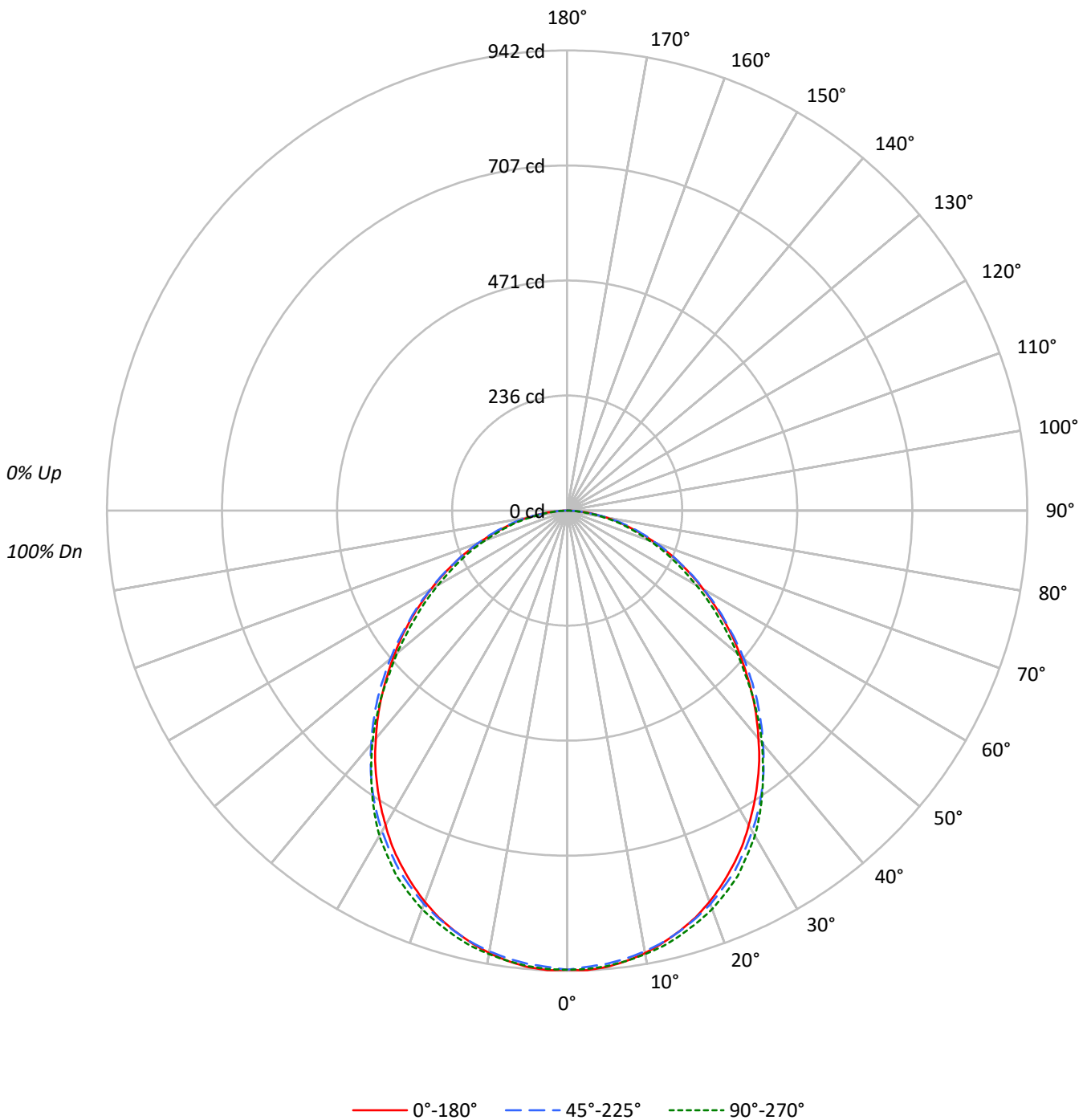
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3167	3167	3167
5°	3171	3150	3166
10°	3147	3135	3155
15°	3108	3110	3138
20°	3055	3074	3114
25°	2984	3022	3070
30°	2893	2949	2992
35°	2795	2861	2868
40°	2681	2744	2729
45°	2558	2621	2560
50°	2426	2477	2384
55°	2301	2322	2213
60°	2169	2176	2055
65°	2032	2032	1912
70°	1878	1901	1759
75°	1707	1774	1617
80°	1558	1603	1380
85°	1361	1206	1052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	3.8
10°-20°	252.2	10.8
20°-30°	374.4	16.0
30°-40°	432.6	18.4
40°-50°	419.1	17.9
50°-60°	350.0	14.9
60°-70°	250.2	10.7
70°-80°	140.4	6.0
80°-90°	37.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	715.4	30.5
0°-40°	1148.0	49.0
0°-60°	1917.1	81.8
0°-90°	2345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	938	936	931	936	936	89
15°	891	892	891	900	900	251
25°	802	806	813	824	826	369
35°	679	685	696	700	697	425
45°	537	544	550	543	537	414
55°	392	398	395	384	377	350
65°	255	259	255	245	240	253
75°	131	137	136	127	124	141
85°	35	36	31	28	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.0	940.0	940.0	940.0	940.0
2.5°	941.7	940.0	934.8	940.0	939.4
5°	937.6	935.9	931.3	936.5	935.9
7.5°	930.1	929.0	924.9	931.3	930.1
10°	919.7	918.6	916.3	922.6	922.0
12.5°	906.4	906.4	905.3	912.2	912.8
15°	890.8	892.0	891.4	900.1	899.5
17.5°	873.5	873.5	875.2	885.1	884.5
20°	852.1	853.3	857.3	866.6	868.3
22.5°	828.5	830.2	835.4	846.9	847.5
25°	802.5	806.5	812.9	824.4	825.6
27.5°	775.3	778.2	785.7	797.8	796.7
30°	743.5	750.5	758.0	767.8	768.9
32.5°	712.3	718.7	727.9	736.0	734.3
35°	679.4	685.2	695.6	700.2	697.3
37.5°	645.9	652.2	660.9	663.2	658.6
40°	609.5	617.6	623.9	623.9	620.5
42.5°	573.7	580.0	587.0	584.1	578.9
45°	536.7	544.2	550.0	543.1	537.3
47.5°	499.2	507.8	510.7	503.2	493.4
50°	462.8	472.0	472.6	462.8	454.7
52.5°	428.1	435.0	433.3	423.5	414.2
55°	391.7	398.1	395.2	384.2	376.7
57.5°	355.9	362.2	360.5	347.8	340.9
60°	321.8	325.3	322.9	313.1	305.0
62.5°	287.7	291.7	290.6	276.7	271.0
65°	254.8	259.4	254.8	245.0	239.8
67.5°	223.6	226.5	225.3	217.2	210.3
70°	190.6	194.7	193.0	183.7	178.5
72.5°	161.2	165.8	165.2	155.4	149.1
75°	131.1	136.9	136.3	127.1	124.2
77.5°	106.9	109.8	110.3	100.5	98.8
80°	80.3	84.3	82.6	73.9	71.1
82.5°	56.6	60.1	54.9	49.7	48.5
85°	35.2	35.8	31.2	28.3	27.2
87.5°	14.4	14.4	11.0	9.8	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)