

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: P229403

Luminaire Tested: **22ALNG-LD5-20-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36087)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD5-20-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1909.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

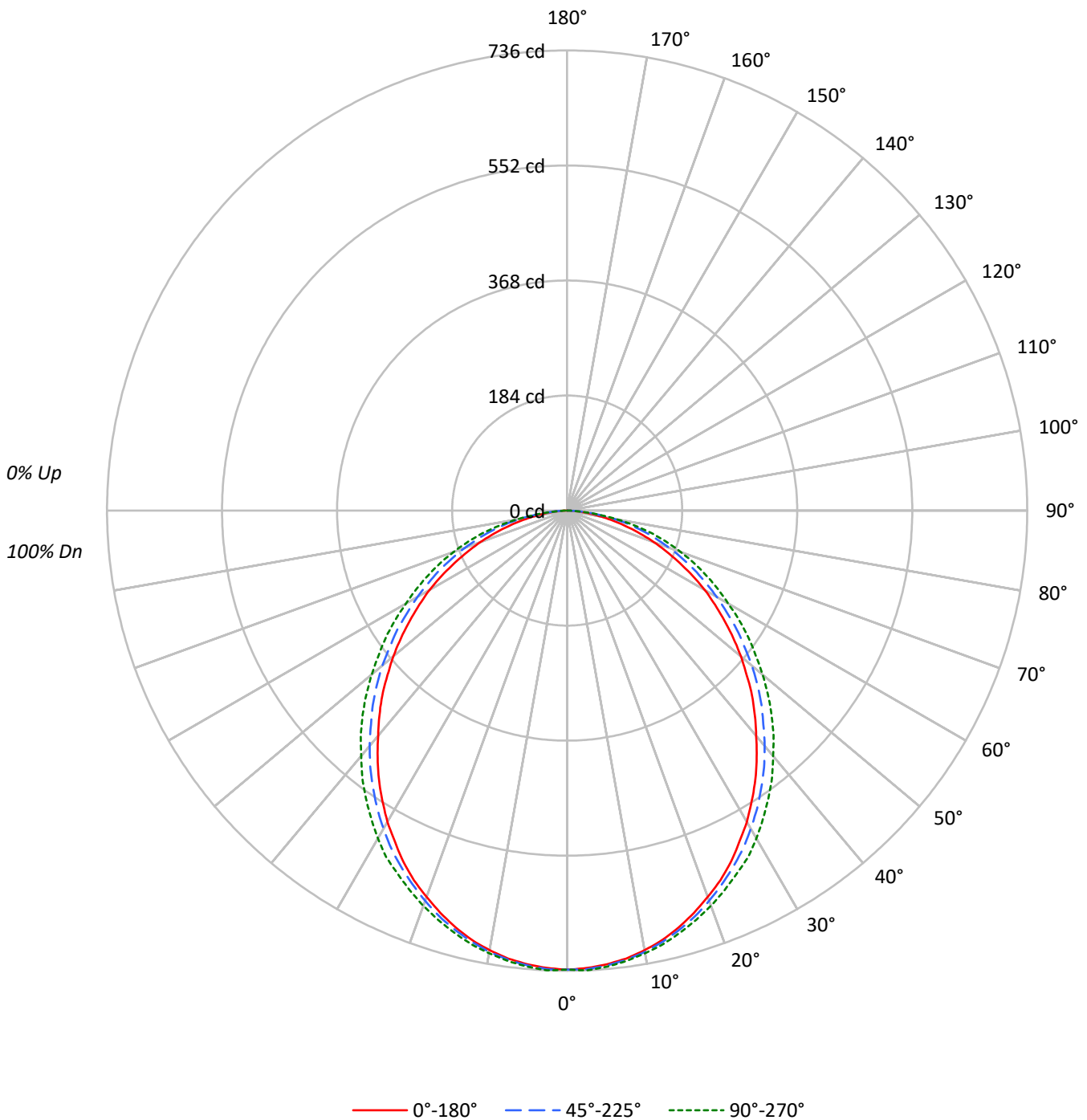
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2351	2351	2351
5°	2342	2348	2354
10°	2322	2331	2337
15°	2288	2301	2317
20°	2240	2263	2293
25°	2191	2221	2265
30°	2126	2172	2239
35°	2052	2116	2195
40°	1966	2054	2143
45°	1895	1991	2095
50°	1808	1922	2032
55°	1715	1849	1977
60°	1629	1770	1905
65°	1506	1702	1862
70°	1384	1626	1806
75°	1211	1544	1734
80°	1009	1398	1486
85°	775	988	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.6
10°-20°	195.7	10.2
20°-30°	289.9	15.2
30°-40°	339.0	17.8
40°-50°	338.8	17.7
50°-60°	295.3	15.5
60°-70°	220.9	11.6
70°-80°	128.5	6.7
80°-90°	31.6	1.7
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°	554.9	29.1
0°-40°	893.9	46.8
0°-60°	1528.1	80.0
0°-90°	1909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	728	729	730	732	732	69
15°	690	691	694	697	699	194
25°	620	622	629	637	641	285
35°	525	529	541	557	561	328
45°	418	423	440	456	463	322
55°	307	313	331	346	354	275
65°	199	206	225	239	246	198
75°	98	108	125	134	140	105
85°	21	25	27	26	25	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.2	734.2	734.2	734.2	734.2
2.5°	732.3	732.3	734.2	735.1	736.1
5°	728.4	729.4	730.3	732.3	732.3
7.5°	722.7	723.6	724.6	726.5	726.5
10°	714.0	715.0	716.9	718.8	718.8
12.5°	703.5	704.4	706.4	708.3	710.2
15°	690.0	691.0	693.9	696.8	698.7
17.5°	674.7	676.6	680.4	684.3	686.2
20°	657.4	659.3	664.1	670.8	672.8
22.5°	640.1	641.1	646.9	654.5	657.4
25°	620.0	621.9	628.6	637.3	641.1
27.5°	596.9	599.8	609.4	620.0	625.7
30°	574.9	576.8	587.4	600.8	605.6
32.5°	549.9	553.8	565.3	578.7	583.5
35°	525.0	528.8	541.3	556.6	561.4
37.5°	498.1	501.9	517.3	532.6	538.4
40°	470.3	476.0	491.4	507.7	512.5
42.5°	444.4	449.2	464.5	480.8	488.5
45°	418.4	423.2	439.6	455.9	462.6
47.5°	389.6	394.4	412.7	429.0	435.7
50°	362.8	367.6	385.8	402.1	407.9
52.5°	334.9	340.7	357.0	374.3	380.1
55°	307.1	312.9	331.1	346.5	354.1
57.5°	280.2	287.0	302.3	318.6	326.3
60°	254.3	259.1	276.4	291.8	297.5
62.5°	226.5	232.3	249.5	265.8	271.6
65°	198.7	206.3	224.6	239.0	245.7
67.5°	172.8	180.4	198.7	212.1	219.8
70°	147.8	155.5	173.7	186.2	192.9
72.5°	122.8	132.4	148.8	160.3	166.0
75°	97.9	108.4	124.8	134.4	140.1
77.5°	75.8	86.4	100.8	109.4	111.3
80°	54.7	65.3	75.8	79.7	80.6
82.5°	37.4	45.1	50.9	50.9	52.8
85°	21.1	25.0	26.9	25.9	25.0
87.5°	7.7	8.6	7.7	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)