

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: P277293

Luminaire Tested: **22CZ2-34HE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

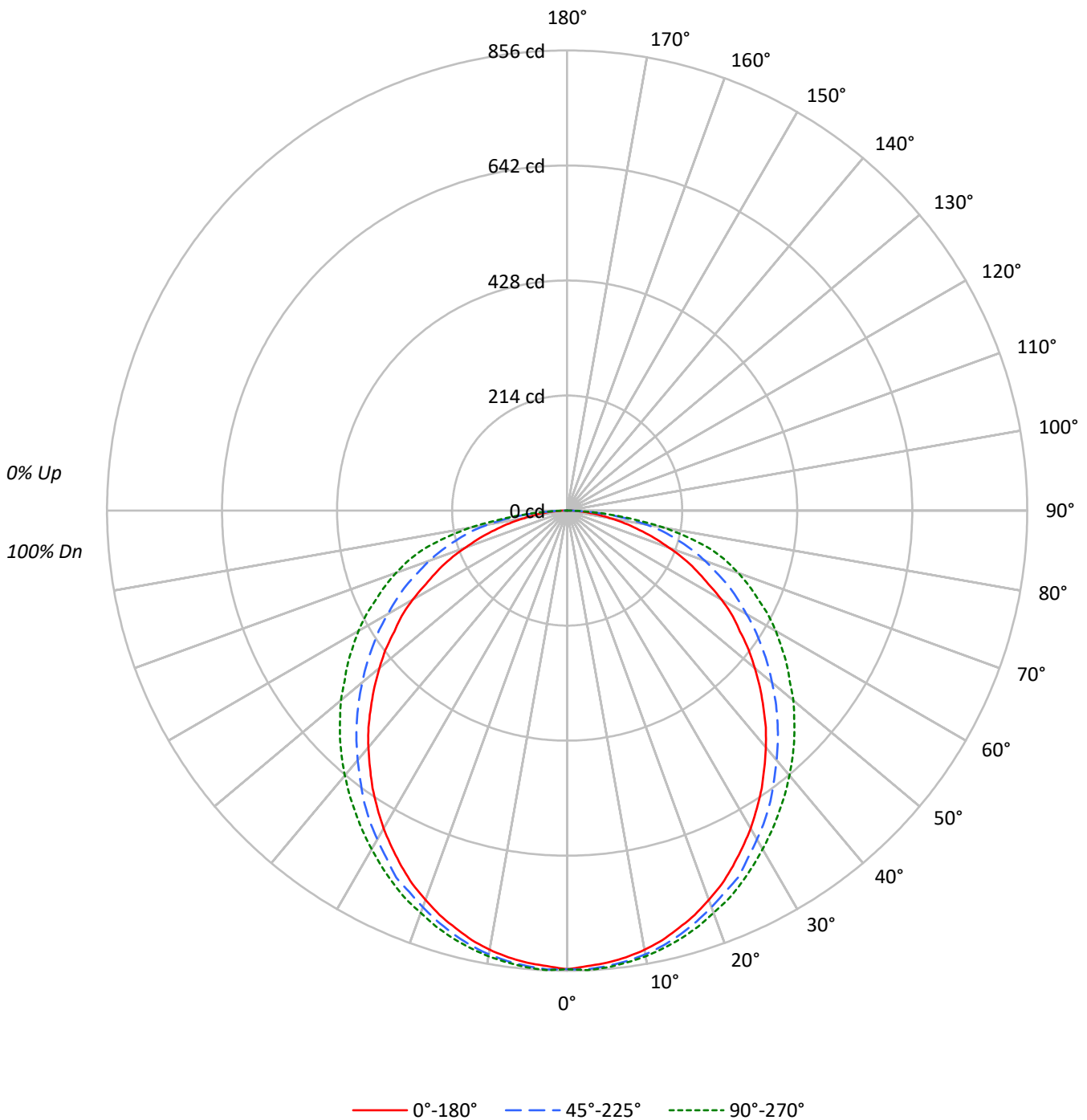
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2296	2296	2296
5°	2281	2298	2304
10°	2267	2291	2301
15°	2239	2274	2294
20°	2206	2249	2280
25°	2166	2236	2273
30°	2121	2194	2260
35°	2073	2166	2255
40°	2021	2129	2259
45°	1964	2105	2274
50°	1907	2083	2300
55°	1842	2074	2340
60°	1787	2073	2412
65°	1698	2107	2500
70°	1583	2146	2662
75°	1450	2221	2875
80°	1263	2315	2831
85°	1105	2059	2248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.2
10°-20°	229.8	9.2
20°-30°	345.0	13.7
30°-40°	412.2	16.4
40°-50°	428.6	17.1
50°-60°	397.3	15.8
60°-70°	325.9	13.0
70°-80°	220.3	8.8
80°-90°	69.2	2.8
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°	655.5	26.1
0°-40°	1067.7	42.6
0°-60°	1893.6	75.5
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	844	846	851	852	853	80
15°	804	807	816	821	824	227
25°	730	736	753	762	765	336
35°	631	640	659	679	686	394
45°	516	526	553	585	598	399
55°	393	405	442	482	499	353
65°	267	282	331	374	393	264
75°	140	163	214	257	276	148
85°	36	49	67	74	73	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	853.1	853.1	853.1	853.1	853.1
2.5°	848.2	850.6	854.3	855.6	855.6
5°	844.5	845.7	850.6	851.9	853.1
7.5°	838.3	840.8	845.7	846.9	848.2
10°	829.6	832.1	838.3	840.8	842.0
12.5°	818.5	821.0	828.4	832.1	833.4
15°	803.7	807.4	816.1	821.0	823.5
17.5°	788.9	792.6	801.3	808.7	811.1
20°	770.4	779.0	785.2	795.1	796.3
22.5°	751.9	756.8	767.9	777.8	782.7
25°	729.6	735.8	753.1	761.7	765.4
27.5°	706.2	714.8	728.4	742.0	746.9
30°	682.7	688.9	706.2	722.2	727.2
32.5°	656.8	665.4	684.0	700.0	707.4
35°	630.9	639.5	659.3	679.0	686.4
37.5°	602.5	612.4	632.1	655.6	665.4
40°	575.3	582.7	606.2	634.6	643.2
42.5°	546.9	555.6	580.3	611.1	621.0
45°	516.1	525.9	553.1	585.2	597.5
47.5°	486.4	496.3	525.9	558.0	572.9
50°	455.6	467.9	497.5	534.6	549.4
52.5°	425.9	437.0	470.4	508.7	522.2
55°	392.6	404.9	442.0	481.5	498.8
57.5°	365.4	374.1	414.8	455.6	472.9
60°	332.1	343.2	385.2	428.4	448.2
62.5°	296.3	314.8	358.0	402.5	422.2
65°	266.7	281.5	330.9	374.1	392.6
67.5°	235.8	251.9	300.0	345.7	366.7
70°	201.2	222.2	272.8	318.5	338.3
72.5°	170.4	192.6	244.5	288.9	309.9
75°	139.5	163.0	213.6	256.8	276.5
77.5°	109.9	135.8	185.2	218.5	230.9
80°	81.5	106.2	149.4	172.8	182.7
82.5°	56.8	77.8	109.9	122.2	124.7
85°	35.8	49.4	66.7	74.1	72.8
87.5°	16.0	19.8	24.7	27.2	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)