

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: P277231

Luminaire Tested: **22CZ2-29HE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277231
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: 22CZ2-29HE-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2508.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

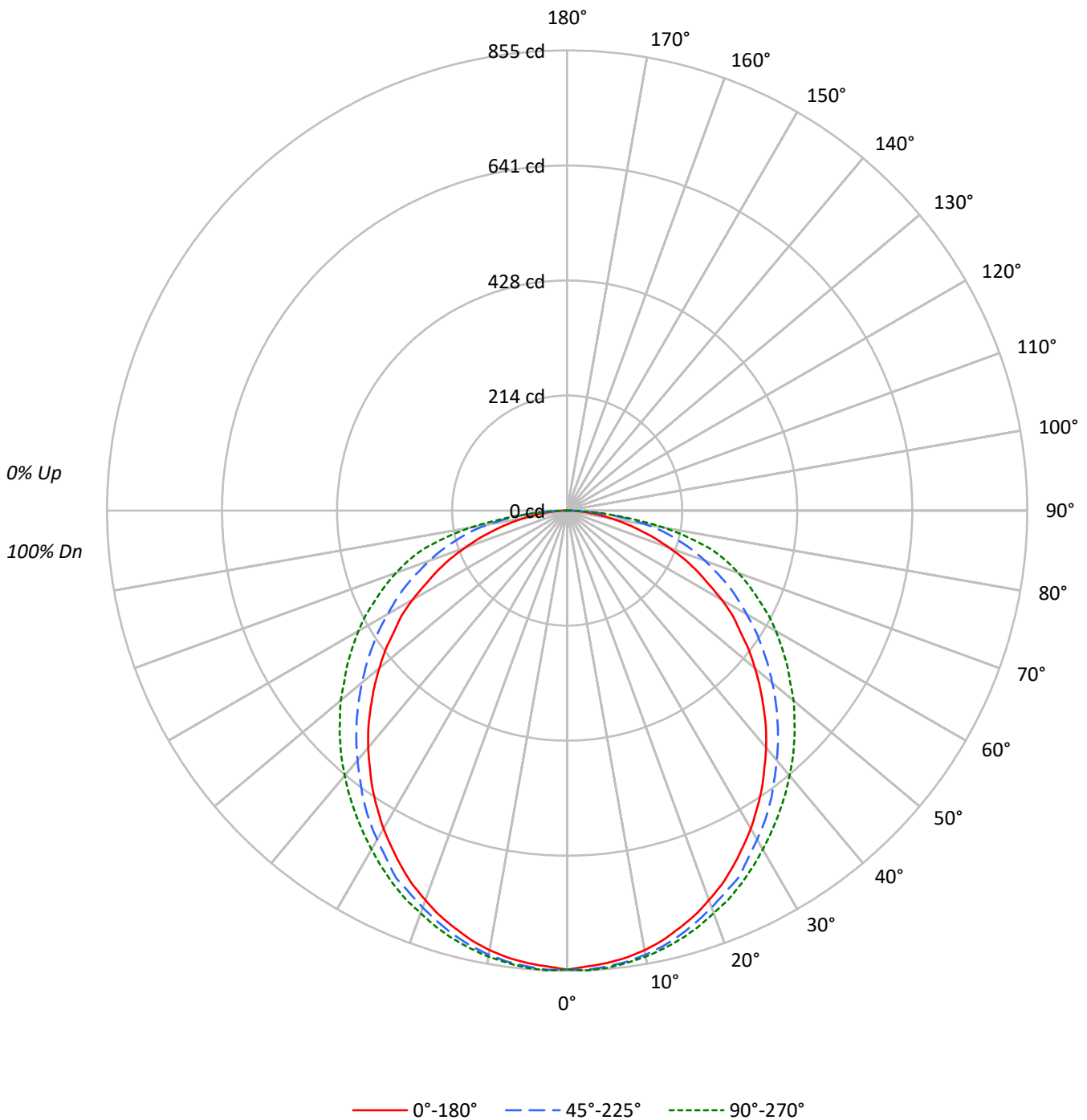
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2295	2295	2295
5°	2280	2297	2304
10°	2266	2290	2300
15°	2238	2272	2293
20°	2205	2248	2279
25°	2166	2235	2272
30°	2121	2193	2259
35°	2072	2165	2254
40°	2020	2128	2259
45°	1963	2104	2273
50°	1906	2082	2299
55°	1841	2073	2339
60°	1787	2072	2411
65°	1698	2106	2499
70°	1583	2146	2660
75°	1450	2220	2874
80°	1263	2314	2830
85°	1105	2056	2248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.2
10°-20°	229.7	9.2
20°-30°	344.8	13.7
30°-40°	412.1	16.4
40°-50°	428.5	17.1
50°-60°	397.1	15.8
60°-70°	325.7	13.0
70°-80°	220.2	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°	655.2	26.1
0°-40°	1067.2	42.6
0°-60°	1892.9	75.5
0°-90°	2508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	844	845	850	852	853	80
15°	803	807	816	821	823	227
25°	729	736	753	761	765	336
35°	631	639	659	679	686	394
45°	516	526	553	585	597	398
55°	392	405	442	481	499	353
65°	267	281	331	374	392	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°	852.8	852.8	852.8	852.8	852.8
2.5°	847.8	850.3	854.0	855.2	855.2
5°	844.1	845.4	850.3	851.5	852.8
7.5°	838.0	840.4	845.4	846.6	847.8
10°	829.3	831.8	838.0	840.4	841.7
12.5°	818.2	820.7	828.1	831.8	833.0
15°	803.4	807.1	815.7	820.7	823.1
17.5°	788.6	792.3	800.9	808.3	810.8
20°	770.1	778.7	784.9	794.8	796.0
22.5°	751.6	756.5	767.6	777.5	782.4
25°	729.4	735.5	752.8	761.4	765.1
27.5°	705.9	714.5	728.1	741.7	746.6
30°	682.5	688.6	705.9	722.0	726.9
32.5°	656.5	665.2	683.7	699.7	707.1
35°	630.6	639.3	659.0	678.8	686.2
37.5°	602.2	612.1	631.9	655.3	665.2
40°	575.1	582.5	605.9	634.3	643.0
42.5°	546.7	555.3	580.0	610.9	620.8
45°	515.9	525.7	552.9	585.0	597.3
47.5°	486.2	496.1	525.7	557.8	572.6
50°	455.4	467.7	497.3	534.4	549.2
52.5°	425.8	436.9	470.2	508.5	522.0
55°	392.4	404.8	441.8	481.3	498.6
57.5°	365.3	373.9	414.7	455.4	472.7
60°	332.0	343.1	385.0	428.2	448.0
62.5°	296.2	314.7	357.9	402.3	422.1
65°	266.6	281.4	330.7	373.9	392.4
67.5°	235.7	251.8	299.9	345.5	366.5
70°	201.2	222.1	272.7	318.4	338.1
72.5°	170.3	192.5	244.4	288.8	309.8
75°	139.5	162.9	213.5	256.7	276.4
77.5°	109.8	135.8	185.1	218.4	230.8
80°	81.5	106.1	149.3	172.8	182.6
82.5°	56.8	77.7	109.8	122.2	124.6
85°	35.8	49.4	66.6	74.0	72.8
87.5°	16.0	19.7	24.7	27.2	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)