

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: P277291

Luminaire Tested: **22CZ2-29HE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277291
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-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2504.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

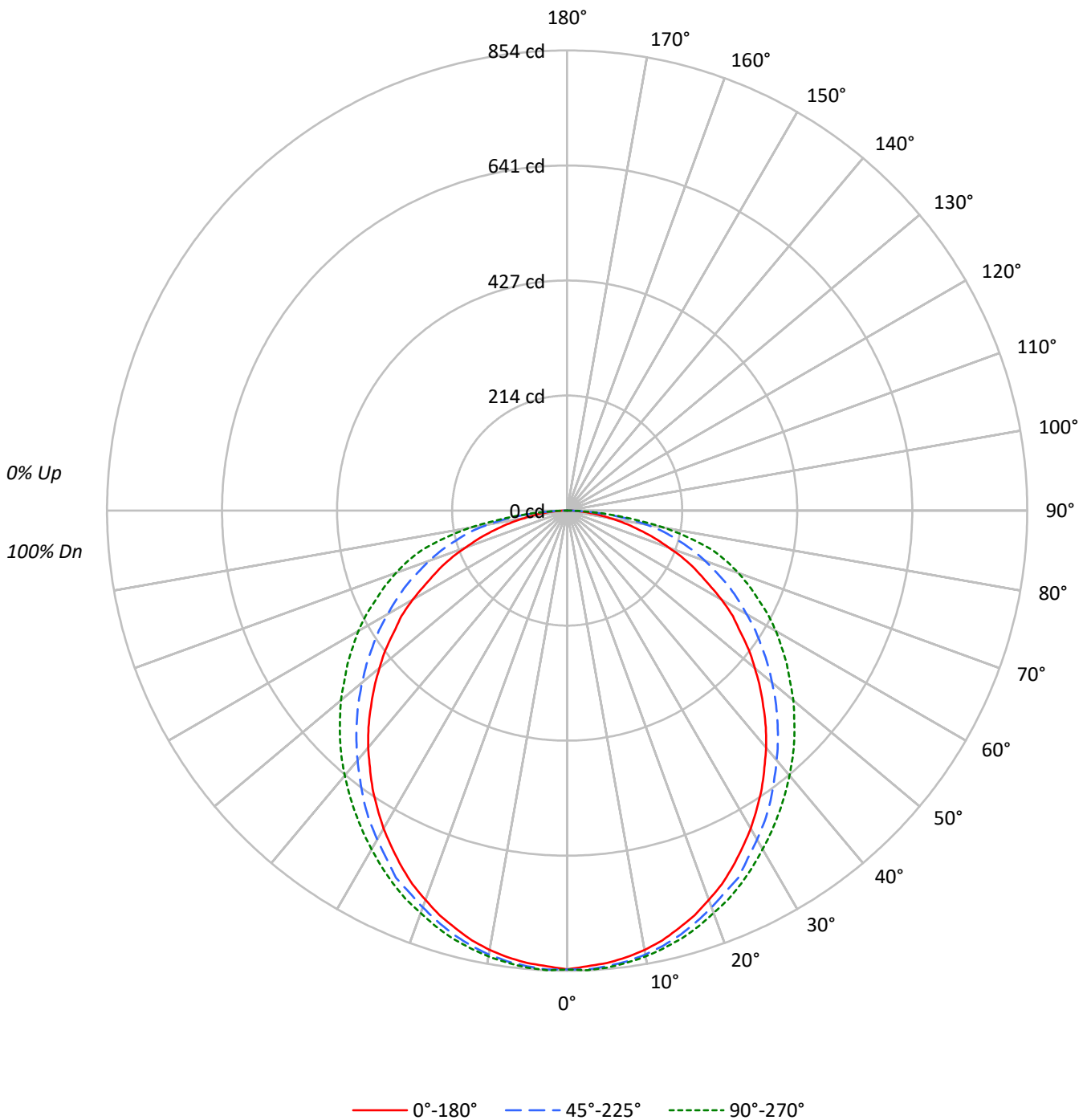
Input Watts (W): 21.483
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2291	2291	2291
5°	2277	2293	2300
10°	2263	2286	2296
15°	2235	2269	2289
20°	2202	2244	2276
25°	2162	2232	2268
30°	2117	2190	2255
35°	2068	2162	2251
40°	2017	2125	2255
45°	1960	2101	2270
50°	1904	2079	2295
55°	1838	2069	2335
60°	1784	2069	2407
65°	1694	2103	2495
70°	1580	2142	2656
75°	1447	2217	2870
80°	1260	2311	2827
85°	1102	2053	2245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.2
10°-20°	229.3	9.2
20°-30°	344.3	13.7
30°-40°	411.4	16.4
40°-50°	427.8	17.1
50°-60°	396.5	15.8
60°-70°	325.2	13.0
70°-80°	219.9	8.8
80°-90°	69.1	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°	654.2	26.1
0°-40°	1065.6	42.6
0°-60°	1889.8	75.5
0°-90°	2504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	843	844	849	850	851	80
15°	802	806	814	819	822	226
25°	728	734	752	760	764	335
35°	630	638	658	678	685	394
45°	515	525	552	584	596	398
55°	392	404	441	480	498	352
65°	266	281	330	373	392	263
75°	139	163	213	256	276	148
85°	36	49	66	74	73	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.4	851.4	851.4	851.4	851.4
2.5°	846.5	848.9	852.6	853.9	853.9
5°	842.8	844.0	848.9	850.2	851.4
7.5°	836.6	839.1	844.0	845.2	846.5
10°	828.0	830.5	836.6	839.1	840.3
12.5°	816.9	819.4	826.8	830.5	831.7
15°	802.1	805.8	814.4	819.4	821.8
17.5°	787.3	791.0	799.7	807.0	809.5
20°	768.9	777.5	783.6	793.5	794.7
22.5°	750.4	755.3	766.4	776.2	781.2
25°	728.2	734.4	751.6	760.2	763.9
27.5°	704.8	713.4	727.0	740.5	745.4
30°	681.4	687.5	704.8	720.8	725.7
32.5°	655.5	664.1	682.6	698.6	706.0
35°	629.6	638.2	658.0	677.7	685.1
37.5°	601.3	611.1	630.9	654.3	664.1
40°	574.2	581.6	605.0	633.3	641.9
42.5°	545.8	554.5	579.1	609.9	619.8
45°	515.0	524.9	552.0	584.0	596.4
47.5°	485.5	495.3	524.9	556.9	571.7
50°	454.7	467.0	496.6	533.5	548.3
52.5°	425.1	436.2	469.4	507.6	521.2
55°	391.8	404.1	441.1	480.5	497.8
57.5°	364.7	373.3	414.0	454.7	471.9
60°	331.4	342.5	384.4	427.6	447.3
62.5°	295.7	314.2	357.3	401.7	421.4
65°	266.1	280.9	330.2	373.3	391.8
67.5°	235.3	251.4	299.4	345.0	365.9
70°	200.8	221.8	272.3	317.9	337.6
72.5°	170.0	192.2	244.0	288.3	309.3
75°	139.2	162.6	213.2	256.3	276.0
77.5°	109.7	135.5	184.8	218.1	230.4
80°	81.3	106.0	149.1	172.5	182.4
82.5°	56.7	77.6	109.7	122.0	124.4
85°	35.7	49.3	66.5	73.9	72.7
87.5°	16.0	19.7	24.6	27.1	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)