

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: P277233

Luminaire Tested: **22CZ2-29HE-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277233
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-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2652.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

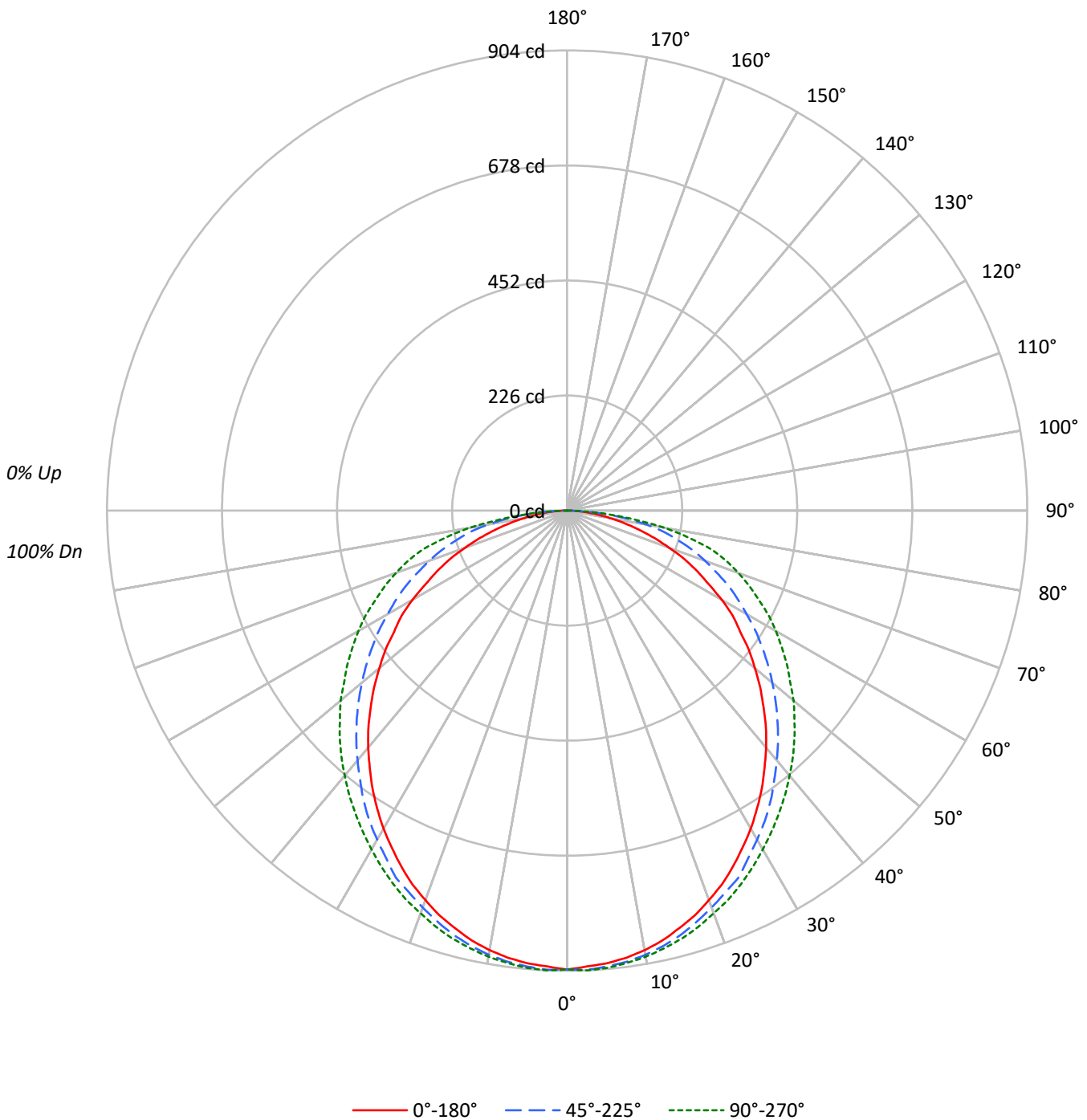
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2426	2426	2426
5°	2411	2429	2436
10°	2396	2421	2432
15°	2367	2403	2425
20°	2332	2377	2410
25°	2290	2363	2402
30°	2242	2319	2388
35°	2190	2289	2384
40°	2136	2251	2388
45°	2076	2225	2404
50°	2016	2202	2431
55°	1947	2192	2473
60°	1889	2191	2549
65°	1795	2227	2642
70°	1674	2269	2814
75°	1534	2348	3039
80°	1334	2447	2992
85°	1167	2177	2377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	3.2
10°-20°	242.9	9.2
20°-30°	364.6	13.7
30°-40°	435.7	16.4
40°-50°	453.1	17.1
50°-60°	419.9	15.8
60°-70°	344.4	13.0
70°-80°	232.8	8.8
80°-90°	73.2	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°	692.8	26.1
0°-40°	1128.5	42.6
0°-60°	2001.5	75.5
0°-90°	2652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	893	894	899	900	902	85
15°	850	853	863	868	870	240
25°	771	778	796	805	809	355
35°	667	676	697	718	726	417
45°	546	556	585	619	632	421
55°	415	428	467	509	527	373
65°	282	298	350	395	415	279
75°	148	172	226	271	292	156
85°	38	52	70	78	77	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.7	901.7	901.7	901.7	901.7
2.5°	896.5	899.1	903.0	904.3	904.3
5°	892.6	893.9	899.1	900.4	901.7
7.5°	886.1	888.7	893.9	895.2	896.5
10°	876.9	879.5	886.1	888.7	890.0
12.5°	865.2	867.8	875.6	879.5	880.8
15°	849.5	853.4	862.6	867.8	870.4
17.5°	833.9	837.8	846.9	854.8	857.4
20°	814.3	823.4	830.0	840.4	841.7
22.5°	794.7	799.9	811.7	822.1	827.3
25°	771.2	777.8	796.0	805.2	809.1
27.5°	746.4	755.6	769.9	784.3	789.5
30°	721.6	728.2	746.4	763.4	768.6
32.5°	694.2	703.4	722.9	739.9	747.7
35°	666.8	676.0	696.8	717.7	725.6
37.5°	636.8	647.3	668.1	692.9	703.4
40°	608.1	615.9	640.7	670.8	679.9
42.5°	578.1	587.2	613.3	646.0	656.4
45°	545.5	555.9	584.6	618.6	631.6
47.5°	514.2	524.6	555.9	589.8	605.5
50°	481.5	494.6	525.9	565.0	580.7
52.5°	450.2	462.0	497.2	537.6	552.0
55°	415.0	428.0	467.2	508.9	527.2
57.5°	386.3	395.4	438.5	481.5	499.8
60°	351.0	362.8	407.1	452.8	473.7
62.5°	313.2	332.8	378.4	425.4	446.3
65°	281.9	297.5	349.7	395.4	415.0
67.5°	249.2	266.2	317.1	365.4	387.6
70°	212.7	234.9	288.4	336.7	357.6
72.5°	180.1	203.6	258.4	305.4	327.5
75°	147.5	172.3	225.8	271.4	292.3
77.5°	116.1	143.5	195.7	231.0	244.0
80°	86.1	112.2	157.9	182.7	193.1
82.5°	60.0	82.2	116.1	129.2	131.8
85°	37.8	52.2	70.5	78.3	77.0
87.5°	17.0	20.9	26.1	28.7	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)