

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: P277194

Luminaire Tested: **22CZ2-29HE-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277194
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2438.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

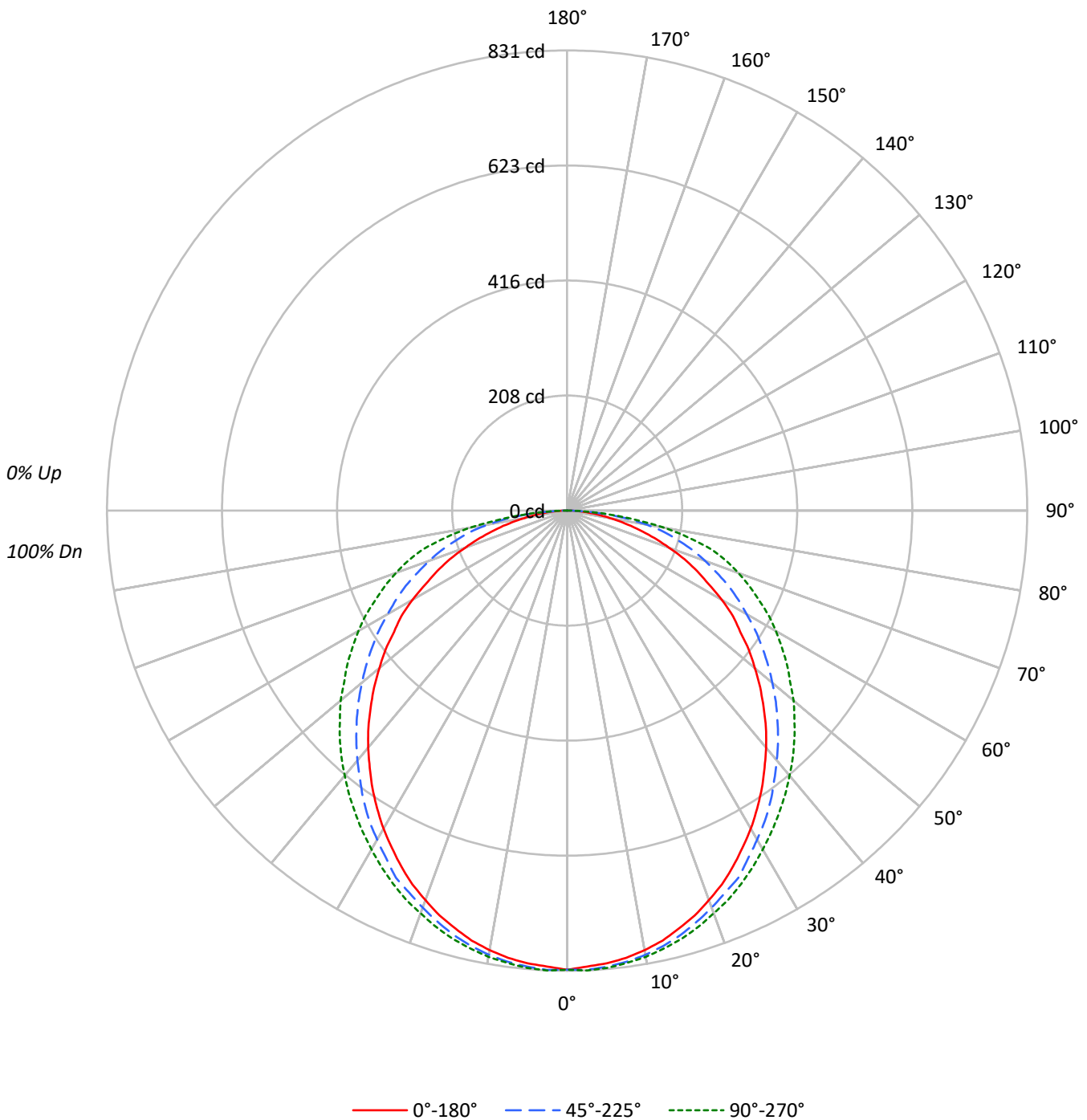
Input Watts (W): 21.373632
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2231	2231	2231
5°	2217	2233	2239
10°	2203	2226	2236
15°	2176	2209	2229
20°	2144	2185	2216
25°	2105	2173	2208
30°	2061	2132	2196
35°	2014	2104	2191
40°	1964	2069	2196
45°	1909	2045	2210
50°	1853	2024	2235
55°	1790	2015	2274
60°	1737	2014	2344
65°	1650	2047	2429
70°	1538	2086	2586
75°	1410	2157	2794
80°	1227	2250	2751
85°	1074	2001	2186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.2
10°-20°	223.3	9.2
20°-30°	335.2	13.7
30°-40°	400.5	16.4
40°-50°	416.5	17.1
50°-60°	386.1	15.8
60°-70°	316.6	13.0
70°-80°	214.0	8.8
80°-90°	67.3	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°	636.9	26.1
0°-40°	1037.5	42.6
0°-60°	1840.0	75.5
0°-90°	2438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	821	822	827	828	829	78
15°	781	785	793	798	800	220
25°	709	715	732	740	744	327
35°	613	621	641	660	667	383
45°	502	511	537	569	581	387
55°	382	394	430	468	485	343
65°	259	274	322	364	382	256
75°	136	158	208	250	269	144
85°	35	48	65	72	71	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829.0	829.0	829.0	829.0	829.0
2.5°	824.2	826.6	830.2	831.4	831.4
5°	820.6	821.8	826.6	827.8	829.0
7.5°	814.6	817.0	821.8	823.0	824.2
10°	806.2	808.6	814.6	817.0	818.2
12.5°	795.4	797.8	805.0	808.6	809.8
15°	781.0	784.6	793.0	797.8	800.2
17.5°	766.6	770.2	778.6	785.8	788.2
20°	748.6	757.0	763.0	772.6	773.8
22.5°	730.6	735.4	746.2	755.8	760.6
25°	709.0	715.0	731.8	740.2	743.8
27.5°	686.2	694.6	707.8	721.0	725.8
30°	663.4	669.4	686.2	701.8	706.6
32.5°	638.2	646.6	664.6	680.2	687.4
35°	613.0	621.4	640.6	659.8	667.0
37.5°	585.4	595.0	614.2	637.0	646.6
40°	559.0	566.2	589.0	616.6	625.0
42.5°	531.4	539.8	563.8	593.8	603.4
45°	501.5	511.1	537.4	568.6	580.6
47.5°	472.7	482.3	511.1	542.2	556.6
50°	442.7	454.7	483.5	519.5	533.8
52.5°	413.9	424.7	457.1	494.3	507.5
55°	381.5	393.5	429.5	467.9	484.7
57.5°	355.1	363.5	403.1	442.7	459.5
60°	322.7	333.5	374.3	416.3	435.5
62.5°	287.9	305.9	347.9	391.1	410.3
65°	259.1	273.5	321.5	363.5	381.5
67.5°	229.1	244.7	291.5	335.9	356.3
70°	195.5	215.9	265.1	309.5	328.7
72.5°	165.6	187.1	237.5	280.7	301.1
75°	135.6	158.4	207.5	249.5	268.7
77.5°	106.8	132.0	179.9	212.3	224.3
80°	79.2	103.2	145.2	168.0	177.5
82.5°	55.2	75.6	106.8	118.8	121.2
85°	34.8	48.0	64.8	72.0	70.8
87.5°	15.6	19.2	24.0	26.4	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)