

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: P277294

Luminaire Tested: **22CZ2-34HE-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277294
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-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2610.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

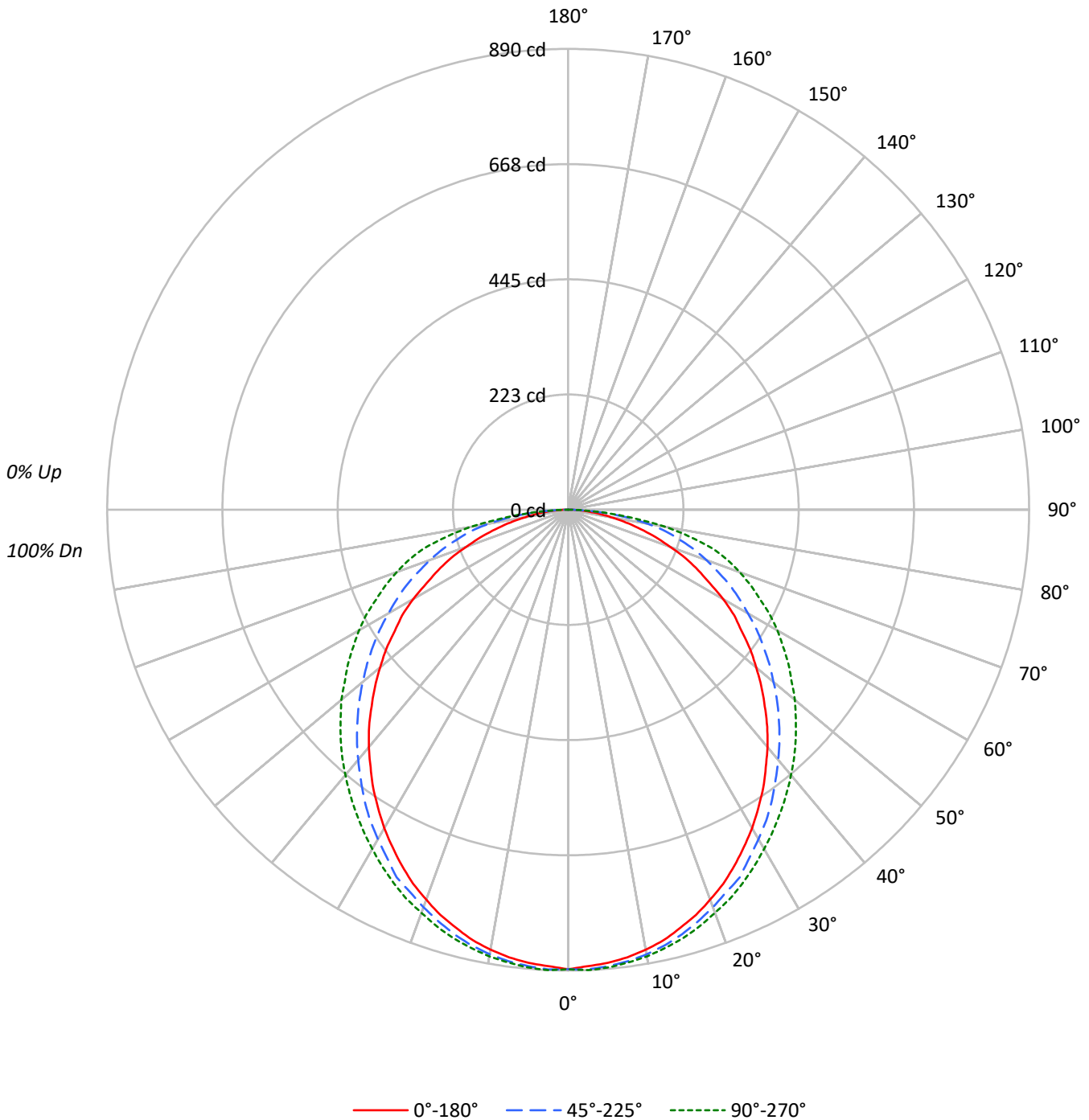
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2388	2388	2388
5°	2373	2390	2397
10°	2358	2383	2393
15°	2329	2365	2386
20°	2295	2339	2372
25°	2254	2326	2364
30°	2207	2283	2350
35°	2156	2253	2346
40°	2102	2215	2350
45°	2043	2190	2366
50°	1984	2167	2393
55°	1916	2157	2434
60°	1859	2157	2509
65°	1766	2192	2600
70°	1647	2233	2769
75°	1509	2310	2991
80°	1314	2408	2946
85°	1149	2143	2340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.2
10°-20°	239.1	9.2
20°-30°	358.9	13.7
30°-40°	428.8	16.4
40°-50°	445.9	17.1
50°-60°	413.3	15.8
60°-70°	339.0	13.0
70°-80°	229.2	8.8
80°-90°	72.0	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°	681.8	26.1
0°-40°	1110.7	42.6
0°-60°	1969.8	75.5
0°-90°	2610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	878	880	885	886	887	83
15°	836	840	849	854	857	236
25°	759	765	783	792	796	350
35°	656	665	686	706	714	410
45°	537	547	575	609	622	415
55°	408	421	460	501	519	367
65°	277	293	344	389	408	274
75°	145	170	222	267	288	154
85°	37	51	69	77	76	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.4	887.4	887.4	887.4	887.4
2.5°	882.3	884.9	888.7	890.0	890.0
5°	878.5	879.7	884.9	886.2	887.4
7.5°	872.0	874.6	879.7	881.0	882.3
10°	863.0	865.6	872.0	874.6	875.9
12.5°	851.5	854.1	861.8	865.6	866.9
15°	836.1	839.9	848.9	854.1	856.6
17.5°	820.7	824.5	833.5	841.2	843.8
20°	801.4	810.4	816.8	827.1	828.4
22.5°	782.1	787.3	798.8	809.1	814.2
25°	759.0	765.4	783.4	792.4	796.3
27.5°	734.6	743.6	757.7	771.9	777.0
30°	710.2	716.6	734.6	751.3	756.4
32.5°	683.2	692.2	711.5	728.2	735.9
35°	656.3	665.3	685.8	706.4	714.1
37.5°	626.7	637.0	657.6	682.0	692.2
40°	598.5	606.2	630.6	660.1	669.1
42.5°	568.9	577.9	603.6	635.7	646.0
45°	536.8	547.1	575.4	608.8	621.6
47.5°	506.0	516.3	547.1	580.5	595.9
50°	473.9	486.7	517.6	556.1	571.5
52.5°	443.1	454.6	489.3	529.1	543.3
55°	408.4	421.2	459.8	500.9	518.9
57.5°	380.2	389.1	431.5	473.9	491.9
60°	345.5	357.0	400.7	445.7	466.2
62.5°	308.2	327.5	372.4	418.7	439.2
65°	277.4	292.8	344.2	389.1	408.4
67.5°	245.3	262.0	312.1	359.6	381.4
70°	209.3	231.2	283.8	331.3	351.9
72.5°	177.2	200.4	254.3	300.5	322.4
75°	145.1	169.5	222.2	267.1	287.7
77.5°	114.3	141.3	192.6	227.3	240.2
80°	84.8	110.4	155.4	179.8	190.1
82.5°	59.1	80.9	114.3	127.1	129.7
85°	37.2	51.4	69.4	77.1	75.8
87.5°	16.7	20.5	25.7	28.3	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)