

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: P275522

Luminaire Tested: **14CZ2-29-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2480.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

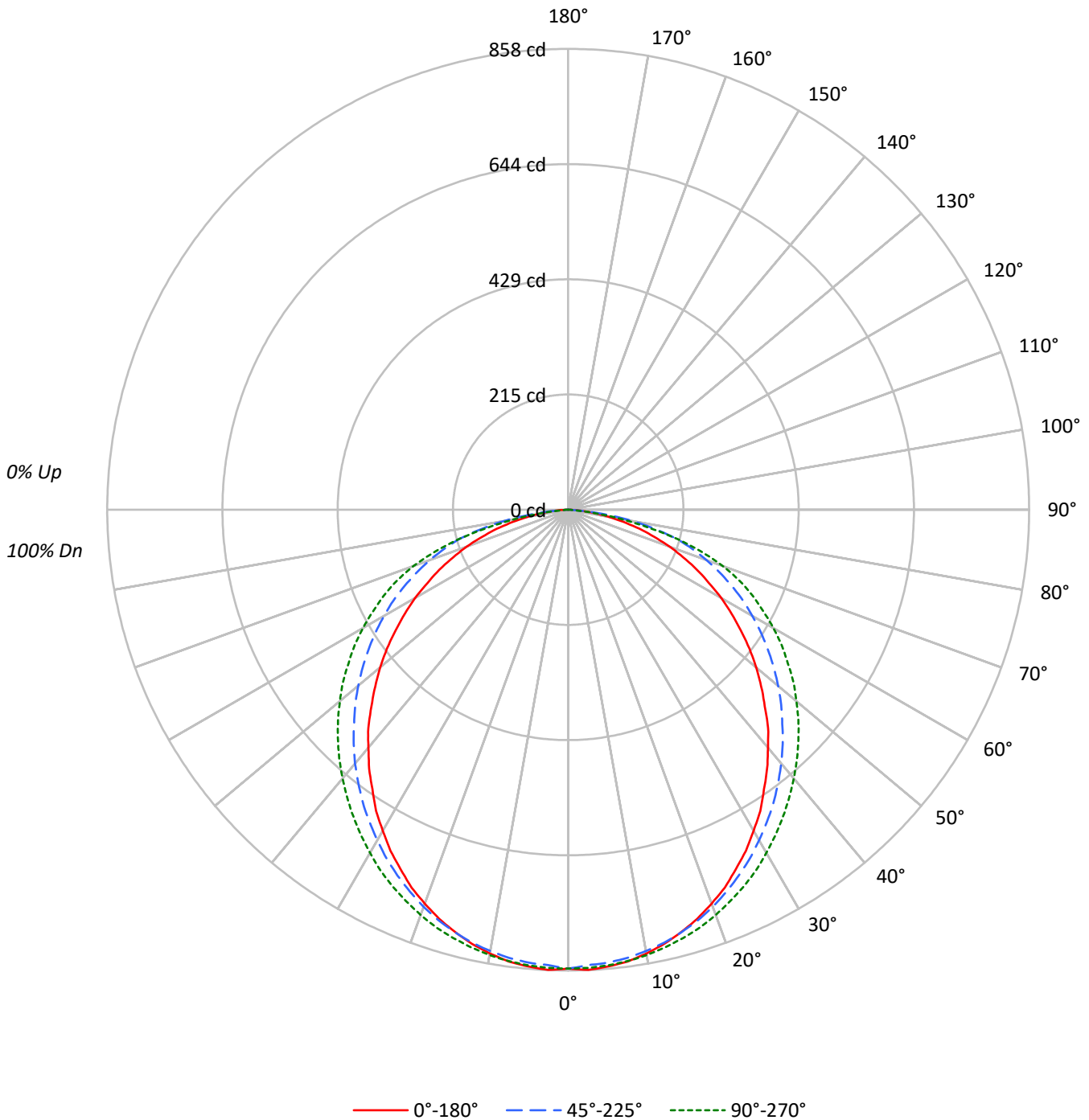
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2299	2299	2299
5°	2306	2287	2300
10°	2292	2280	2301
15°	2268	2269	2300
20°	2235	2253	2299
25°	2192	2231	2297
30°	2144	2208	2292
35°	2087	2189	2291
40°	2032	2168	2294
45°	1970	2144	2307
50°	1912	2135	2322
55°	1840	2128	2343
60°	1774	2131	2375
65°	1683	2138	2412
70°	1579	2153	2411
75°	1432	2173	2179
80°	1175	1877	1551
85°	871	889	358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.3
10°-20°	230.9	9.3
20°-30°	347.9	14.0
30°-40°	417.5	16.8
40°-50°	435.1	17.5
50°-60°	402.8	16.2
60°-70°	325.5	13.1
70°-80°	198.4	8.0
80°-90°	41.0	1.7
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°	659.7	26.6
0°-40°	1077.2	43.4
0°-60°	1915.1	77.2
0°-90°	2480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	854	852	847	853	852	81
15°	814	815	815	826	826	229
25°	738	743	752	770	774	340
35°	635	645	666	691	697	398
45°	518	533	564	595	606	400
55°	392	412	454	489	499	351
65°	264	290	336	369	379	261
75°	138	168	209	212	210	145
85°	28	42	29	16	12	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.4	854.4	854.4	854.4	854.4
2.5°	857.7	854.9	848.8	854.9	853.8
5°	853.8	851.6	846.6	852.7	851.6
7.5°	848.3	846.1	841.6	848.8	847.7
10°	838.9	837.8	834.5	842.8	842.2
12.5°	827.8	827.3	825.6	835.0	834.5
15°	814.0	814.6	814.6	825.6	825.6
17.5°	798.5	799.6	801.8	814.0	815.7
20°	780.3	782.5	786.9	800.7	802.9
22.5°	761.5	763.1	769.8	786.4	788.6
25°	738.2	742.7	751.5	770.3	773.6
27.5°	716.1	720.0	732.2	751.5	757.0
30°	690.1	696.2	710.6	731.6	737.7
32.5°	665.2	671.9	688.5	712.8	718.3
35°	635.4	645.3	666.4	690.7	697.3
37.5°	608.3	617.7	641.5	668.0	675.8
40°	578.4	590.0	617.1	645.3	653.1
42.5°	550.8	561.8	591.1	619.9	630.4
45°	517.6	533.1	563.5	595.0	606.1
47.5°	487.2	502.7	537.5	571.2	581.2
50°	456.8	473.4	509.9	544.7	554.6
52.5°	425.2	442.9	482.2	517.0	528.7
55°	392.1	412.5	453.5	488.8	499.3
57.5°	360.5	381.6	425.2	461.2	471.7
60°	329.6	351.1	395.9	430.2	441.3
62.5°	295.3	320.7	367.2	400.9	409.2
65°	264.3	290.3	335.7	369.4	378.8
67.5°	231.7	259.9	305.2	336.2	345.1
70°	200.7	230.0	273.7	302.5	306.4
72.5°	167.6	197.4	241.7	259.9	259.9
75°	137.7	168.1	209.0	212.3	209.6
77.5°	105.1	138.8	165.3	158.7	152.1
80°	75.8	108.9	121.1	108.9	100.1
82.5°	50.9	79.1	73.0	58.1	51.4
85°	28.2	42.0	28.8	16.0	11.6
87.5°	10.5	9.4	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)