

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: P258837

Luminaire Tested: **14CZ-LD5-29-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2444.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

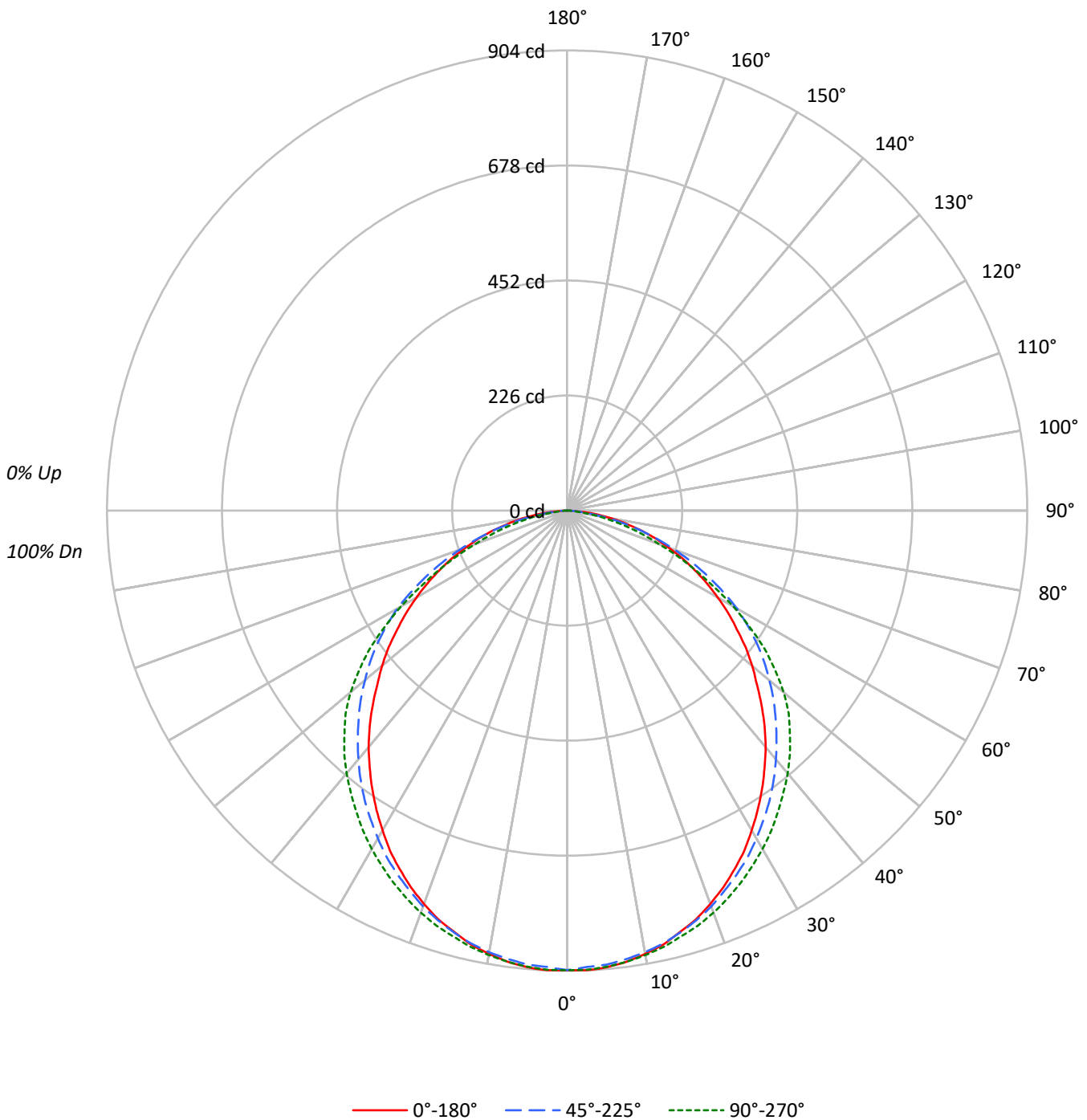
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2429	2429	2429
5°	2433	2418	2430
10°	2416	2407	2422
15°	2388	2391	2412
20°	2355	2370	2407
25°	2309	2341	2396
30°	2254	2311	2386
35°	2193	2279	2372
40°	2131	2242	2368
45°	2056	2205	2354
50°	1988	2170	2325
55°	1911	2136	2222
60°	1841	2075	2028
65°	1761	1941	1782
70°	1662	1765	1508
75°	1551	1528	1246
80°	1367	1181	911
85°	1074	571	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	3.5
10°-20°	243.0	9.9
20°-30°	364.7	14.9
30°-40°	434.8	17.8
40°-50°	447.9	18.3
50°-60°	399.1	16.3
60°-70°	287.6	11.8
70°-80°	150.4	6.2
80°-90°	31.1	1.3
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°	693.1	28.4
0°-40°	1127.9	46.1
0°-60°	1974.9	80.8
0°-90°	2444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	901	898	895	901	900	85
15°	857	858	858	867	866	242
25°	778	782	788	804	807	358
35°	668	676	694	717	722	417
45°	540	552	579	612	619	417
55°	407	420	455	476	474	365
65°	277	286	305	291	280	274
75°	149	157	147	127	120	158
85°	35	30	18	16	16	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.8	902.8	902.8	902.8	902.8
2.5°	903.9	901.7	897.4	902.8	902.8
5°	900.6	898.5	895.2	900.6	899.5
7.5°	894.1	891.9	888.7	895.2	894.1
10°	884.3	883.2	881.0	887.6	886.5
12.5°	873.4	872.3	871.2	877.8	877.8
15°	857.1	858.2	858.2	866.9	865.8
17.5°	841.8	842.9	844.0	854.9	854.9
20°	822.2	823.3	827.7	839.7	840.7
22.5°	801.5	802.6	808.1	822.2	824.4
25°	777.6	781.9	788.5	803.7	807.0
27.5°	753.6	756.9	767.8	785.2	787.4
30°	725.3	731.8	743.8	763.4	767.8
32.5°	697.0	704.6	718.8	740.5	746.0
35°	667.6	676.3	693.7	716.6	722.0
37.5°	637.1	644.7	666.5	690.5	698.1
40°	606.6	614.2	638.2	665.4	674.1
42.5°	573.9	584.8	608.8	639.3	648.0
45°	540.2	552.1	579.4	612.0	618.6
47.5°	505.3	518.4	550.0	582.6	590.3
50°	474.8	486.8	518.4	550.0	555.4
52.5°	442.2	453.0	487.9	514.0	515.1
55°	407.3	420.4	455.2	475.9	473.7
57.5°	375.7	386.6	420.4	431.3	424.7
60°	342.0	351.8	385.5	386.6	376.8
62.5°	309.3	319.1	345.2	337.6	325.6
65°	276.6	286.4	304.9	290.8	279.9
67.5°	245.0	253.7	264.6	246.1	235.2
70°	211.3	223.3	224.3	202.6	191.7
72.5°	181.9	188.4	186.2	165.5	155.7
75°	149.2	156.8	147.0	127.4	119.8
77.5°	118.7	124.2	111.1	92.6	87.1
80°	88.2	91.5	76.2	62.1	58.8
82.5°	59.9	59.9	43.6	33.8	30.5
85°	34.8	30.5	18.5	16.3	16.3
87.5°	12.0	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)