

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: P258641

Luminaire Tested: **14CZ-LD5-44-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-UNV-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4002.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

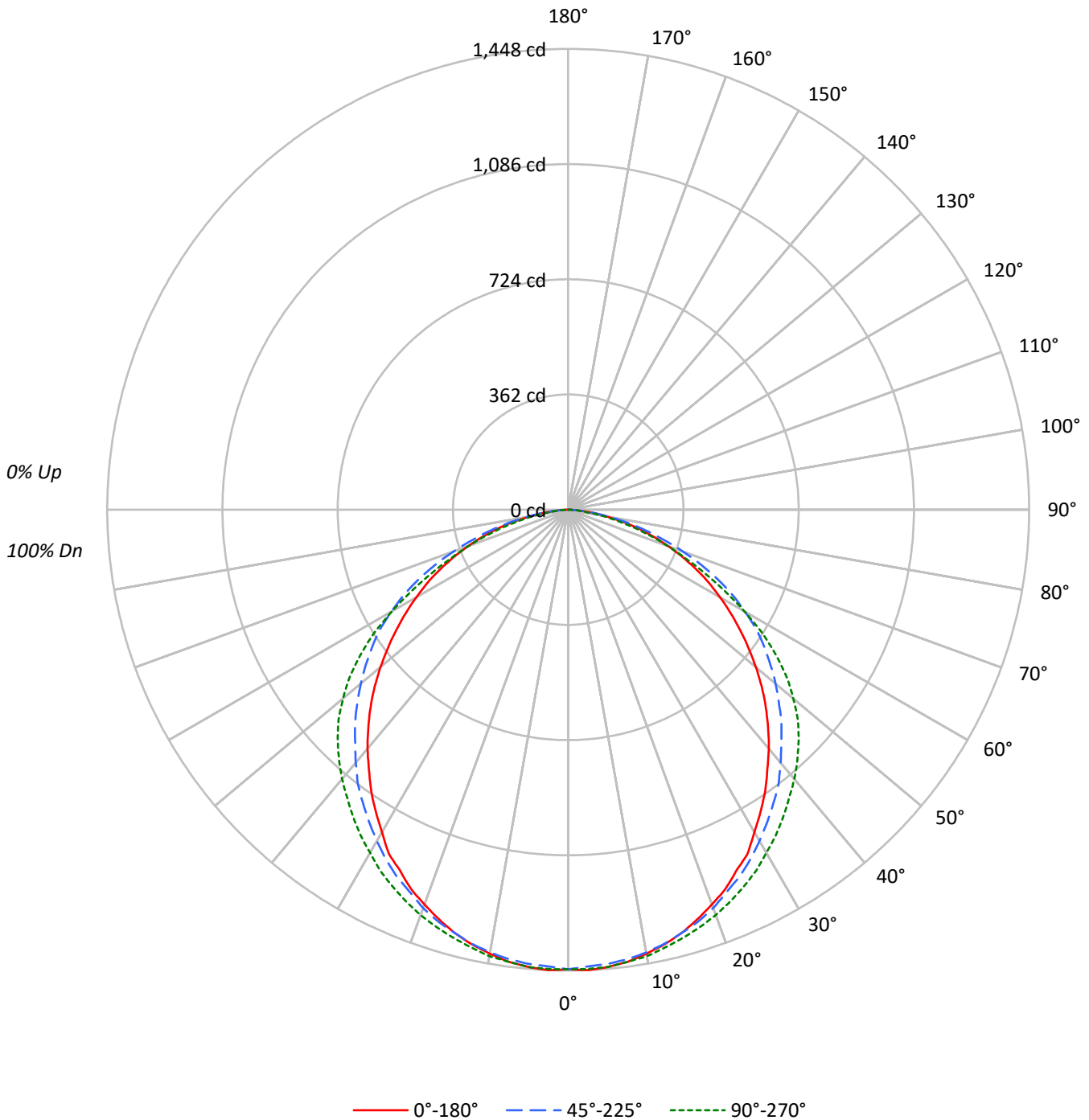
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3886	3886	3886
5°	3896	3869	3896
10°	3871	3860	3892
15°	3836	3836	3880
20°	3780	3814	3881
25°	3714	3779	3878
30°	3636	3733	3868
35°	3545	3694	3869
40°	3445	3646	3881
45°	3341	3604	3897
50°	3221	3560	3865
55°	3092	3527	3740
60°	2963	3451	3440
65°	2826	3304	3015
70°	2623	3012	2608
75°	2380	2625	2154
80°	1895	2080	1590
85°	1340	1158	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.4
10°-20°	390.4	9.8
20°-30°	588.6	14.7
30°-40°	705.5	17.6
40°-50°	732.1	18.3
50°-60°	660.4	16.5
60°-70°	481.7	12.0
70°-80°	252.7	6.3
80°-90°	53.9	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°	1115.6	27.9
0°-40°	1821.1	45.5
0°-60°	3213.6	80.3
0°-90°	4002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1442	1438	1432	1442	1442	137
15°	1377	1377	1377	1393	1393	388
25°	1251	1257	1273	1300	1306	577
35°	1079	1091	1125	1166	1178	674
45°	878	896	947	1004	1024	677
55°	659	683	752	801	797	590
65°	444	470	519	499	474	439
75°	229	260	252	219	207	240
85°	43	53	38	32	30	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.2	1444.2	1444.2	1444.2	1444.2
2.5°	1448.2	1444.2	1436.3	1444.2	1444.2
5°	1442.2	1438.3	1432.4	1442.2	1442.2
7.5°	1432.4	1428.4	1424.5	1434.3	1432.4
10°	1416.6	1414.6	1412.6	1424.5	1424.5
12.5°	1398.8	1398.8	1396.9	1410.7	1408.7
15°	1377.1	1377.1	1377.1	1392.9	1392.9
17.5°	1349.5	1353.5	1357.4	1375.2	1375.2
20°	1319.9	1323.9	1331.7	1353.5	1355.4
22.5°	1290.3	1292.3	1300.2	1325.8	1331.7
25°	1250.9	1256.8	1272.6	1300.2	1306.1
27.5°	1219.3	1221.3	1239.0	1270.6	1278.5
30°	1170.0	1183.8	1201.5	1237.0	1244.9
32.5°	1124.6	1136.4	1164.0	1201.5	1213.4
35°	1079.2	1091.0	1124.6	1166.0	1177.9
37.5°	1027.9	1045.7	1085.1	1126.6	1140.4
40°	980.6	996.3	1037.8	1089.1	1104.9
42.5°	929.3	945.0	990.4	1047.6	1065.4
45°	878.0	895.7	947.0	1004.2	1024.0
47.5°	824.7	844.4	897.7	960.8	978.6
50°	769.5	791.2	850.3	915.5	923.3
52.5°	714.2	737.9	801.0	858.2	866.1
55°	659.0	682.6	751.7	801.0	797.1
57.5°	605.7	631.3	702.4	728.0	724.1
60°	550.5	578.1	641.2	653.1	639.2
62.5°	499.2	524.8	584.0	574.1	556.4
65°	443.9	469.6	518.9	499.2	473.5
67.5°	388.7	420.2	451.8	418.3	398.5
70°	333.4	368.9	382.8	349.2	331.5
72.5°	280.2	317.6	313.7	280.2	268.3
75°	228.9	260.4	252.5	219.0	207.2
77.5°	173.6	209.1	191.4	163.8	153.9
80°	122.3	153.9	134.2	110.5	102.6
82.5°	80.9	102.6	82.9	65.1	59.2
85°	43.4	53.3	37.5	31.6	29.6
87.5°	17.8	15.8	13.8	13.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)