

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: P275700

Luminaire Tested: **14CZ2-35-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3111.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

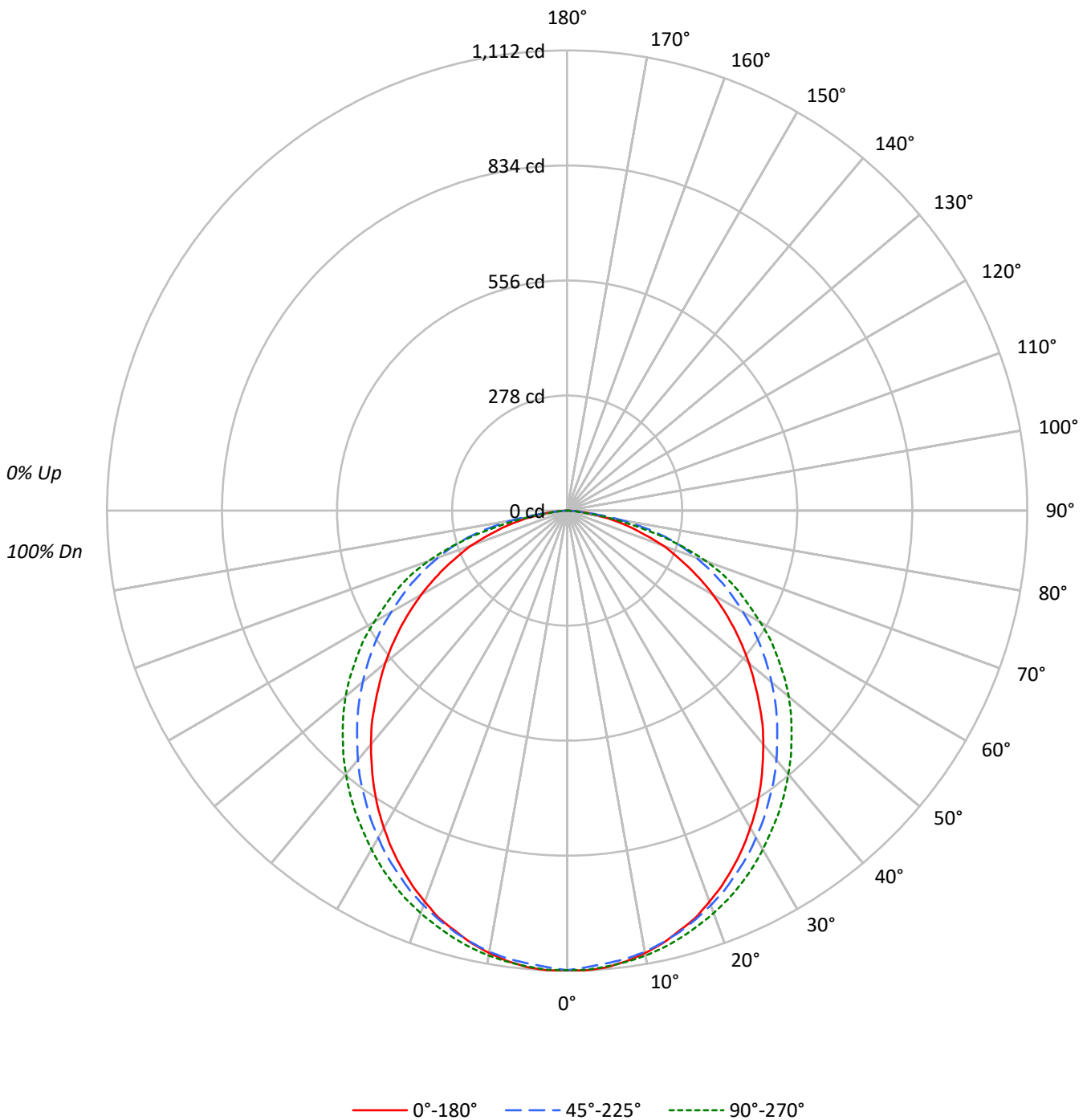
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2989	2989	2989
5°	2992	2967	2987
10°	2967	2959	2984
15°	2926	2935	2974
20°	2880	2906	2964
25°	2821	2871	2954
30°	2751	2837	2938
35°	2675	2797	2929
40°	2590	2764	2921
45°	2495	2729	2917
50°	2402	2699	2925
55°	2301	2677	2916
60°	2192	2640	2897
65°	2062	2632	2897
70°	1942	2609	2816
75°	1684	2550	2406
80°	1362	2056	1601
85°	905	713	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.4
10°-20°	298.4	9.6
20°-30°	447.6	14.4
30°-40°	534.0	17.2
40°-50°	552.0	17.7
50°-60°	504.0	16.2
60°-70°	396.6	12.7
70°-80°	230.9	7.4
80°-90°	42.5	1.4
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°	850.9	27.4
0°-40°	1384.9	44.5
0°-60°	2440.9	78.5
0°-90°	3111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1108	1104	1098	1108	1106	105
15°	1050	1052	1054	1067	1067	296
25°	950	955	967	990	995	437
35°	814	825	851	884	892	509
45°	656	677	717	757	767	506
55°	490	517	571	612	622	439
65°	324	358	413	446	455	322
75°	162	200	245	241	231	172
85°	29	42	23	18	15	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.6	1110.6	1110.6	1110.6	1110.6
2.5°	1112.1	1109.0	1104.4	1112.1	1110.6
5°	1107.5	1104.4	1098.2	1107.5	1105.9
7.5°	1098.2	1095.2	1092.1	1101.3	1099.8
10°	1085.9	1084.4	1082.8	1093.6	1092.1
12.5°	1070.5	1070.5	1068.9	1081.3	1081.3
15°	1050.4	1052.0	1053.5	1067.4	1067.4
17.5°	1031.9	1030.4	1035.0	1050.4	1052.0
20°	1005.7	1008.8	1014.9	1033.5	1035.0
22.5°	979.5	982.6	993.3	1011.9	1016.5
25°	950.2	954.8	967.1	990.3	994.9
27.5°	919.3	925.5	942.4	967.1	971.8
30°	885.4	894.6	913.1	940.9	945.5
32.5°	851.4	860.7	883.8	911.6	917.8
35°	814.4	825.2	851.4	883.8	891.5
37.5°	775.9	789.7	820.6	853.0	862.2
40°	737.3	752.7	786.7	820.6	831.4
42.5°	698.7	714.2	751.2	789.7	800.5
45°	655.5	677.1	717.2	757.4	766.6
47.5°	613.9	637.0	681.8	721.9	734.2
50°	573.8	596.9	644.8	686.4	698.7
52.5°	532.2	556.8	607.7	650.9	661.7
55°	490.5	516.7	570.7	612.4	621.6
57.5°	448.9	476.6	532.2	572.3	583.1
60°	407.2	436.5	490.5	530.6	538.3
62.5°	365.6	396.4	451.9	487.4	495.1
65°	323.9	357.9	413.4	445.8	455.0
67.5°	283.8	317.7	371.7	402.6	410.3
70°	246.8	277.6	331.6	354.8	357.9
72.5°	200.5	239.1	291.5	303.9	296.2
75°	162.0	200.5	245.3	240.6	231.4
77.5°	123.4	162.0	191.3	175.8	163.5
80°	87.9	126.5	132.7	109.5	103.3
82.5°	57.1	87.9	74.0	57.1	46.3
85°	29.3	41.6	23.1	18.5	15.4
87.5°	9.3	6.2	3.1	3.1	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)