

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: P275702

Luminaire Tested: **14CZ2-35-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275702
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3256.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

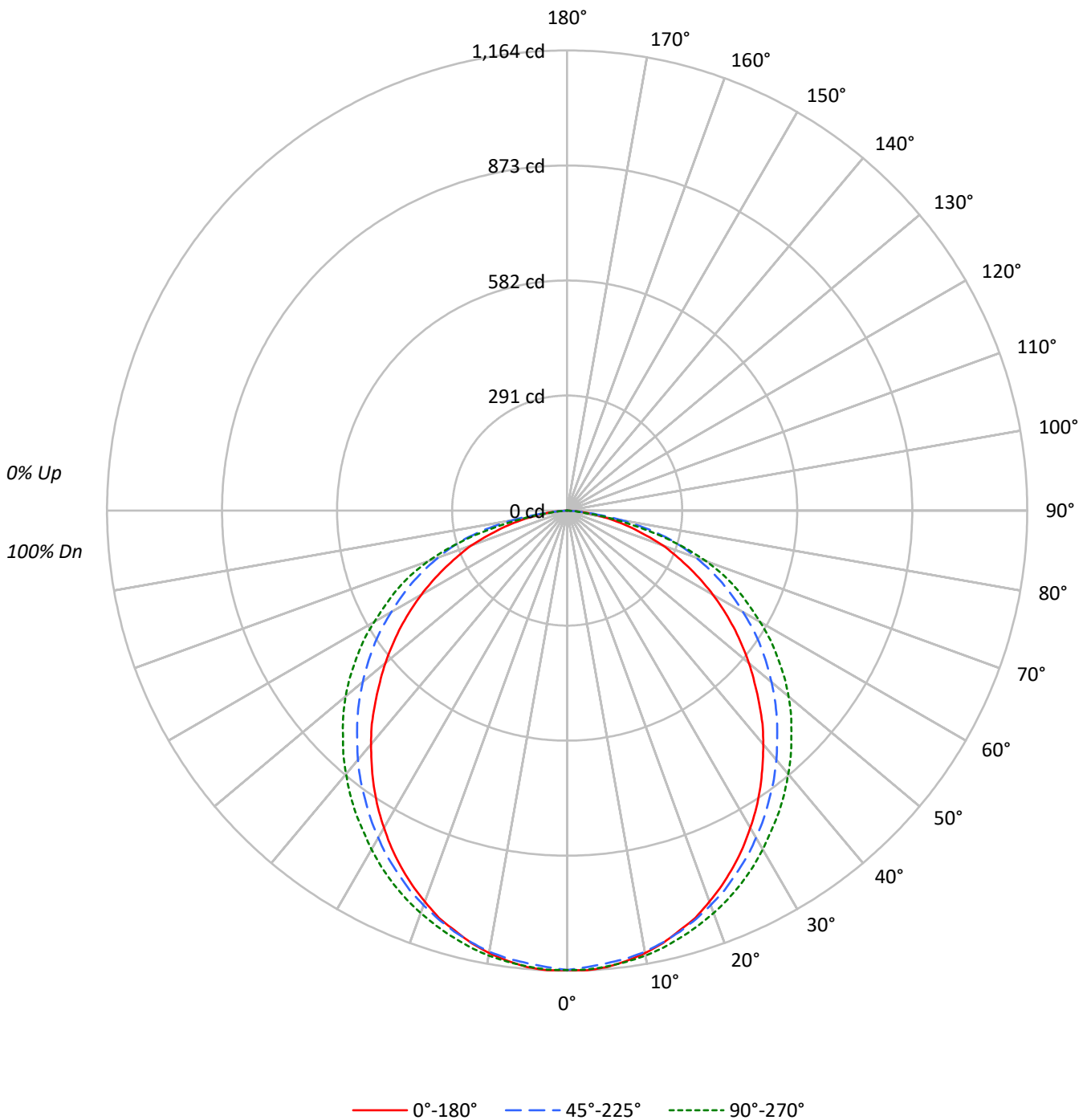
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3128	3128	3128
5°	3131	3105	3127
10°	3105	3097	3123
15°	3063	3072	3112
20°	3014	3042	3102
25°	2953	3005	3092
30°	2879	2970	3075
35°	2800	2927	3065
40°	2711	2892	3057
45°	2611	2857	3053
50°	2514	2825	3062
55°	2409	2802	3052
60°	2294	2763	3032
65°	2159	2755	3032
70°	2032	2731	2947
75°	1762	2669	2518
80°	1426	2151	1677
85°	948	747	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.4
10°-20°	312.3	9.6
20°-30°	468.5	14.4
30°-40°	558.9	17.2
40°-50°	577.8	17.7
50°-60°	527.5	16.2
60°-70°	415.1	12.7
70°-80°	241.6	7.4
80°-90°	44.5	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°	890.6	27.4
0°-40°	1449.4	44.5
0°-60°	2554.7	78.5
0°-90°	3256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1159	1156	1149	1159	1158	110
15°	1099	1101	1103	1117	1117	310
25°	994	999	1012	1036	1041	458
35°	852	864	891	925	933	533
45°	686	709	751	793	802	530
55°	513	541	597	641	651	459
65°	339	374	433	466	476	337
75°	170	210	257	252	242	180
85°	31	44	24	19	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.3	1162.3	1162.3	1162.3	1162.3
2.5°	1164.0	1160.7	1155.9	1164.0	1162.3
5°	1159.1	1155.9	1149.4	1159.1	1157.5
7.5°	1149.4	1146.2	1143.0	1152.7	1151.0
10°	1136.5	1134.9	1133.3	1144.6	1143.0
12.5°	1120.4	1120.4	1118.8	1131.7	1131.7
15°	1099.4	1101.0	1102.6	1117.1	1117.1
17.5°	1080.0	1078.4	1083.2	1099.4	1101.0
20°	1052.6	1055.8	1062.2	1081.6	1083.2
22.5°	1025.1	1028.3	1039.6	1059.0	1063.9
25°	994.4	999.3	1012.2	1036.4	1041.3
27.5°	962.2	968.6	986.4	1012.2	1017.0
30°	926.6	936.3	955.7	984.8	989.6
32.5°	891.1	900.8	925.0	954.1	960.5
35°	852.4	863.7	891.1	925.0	933.1
37.5°	812.0	826.6	858.8	892.7	902.4
40°	771.7	787.8	823.3	858.8	870.1
42.5°	731.3	747.4	786.2	826.6	837.9
45°	686.1	708.7	750.7	792.6	802.3
47.5°	642.5	666.7	713.5	755.5	768.4
50°	600.5	624.8	674.8	718.4	731.3
52.5°	557.0	582.8	636.1	681.3	692.6
55°	513.4	540.8	597.3	640.9	650.6
57.5°	469.8	498.8	557.0	598.9	610.2
60°	426.2	456.9	513.4	555.3	563.4
62.5°	382.6	414.9	473.0	510.1	518.2
65°	339.0	374.5	432.6	466.5	476.2
67.5°	297.0	332.6	389.1	421.3	429.4
70°	258.3	290.6	347.1	371.3	374.5
72.5°	209.9	250.2	305.1	318.0	310.0
75°	169.5	209.9	256.7	251.8	242.2
77.5°	129.1	169.5	200.2	184.0	171.1
80°	92.0	132.4	138.8	114.6	108.2
82.5°	59.7	92.0	77.5	59.7	48.4
85°	30.7	43.6	24.2	19.4	16.1
87.5°	9.7	6.5	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)