

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: P275604

Luminaire Tested: **14CZ2-35-S-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275604
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-L93050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3290.0 lumens
Efficiency: N/A
Efficacy: 115.2 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

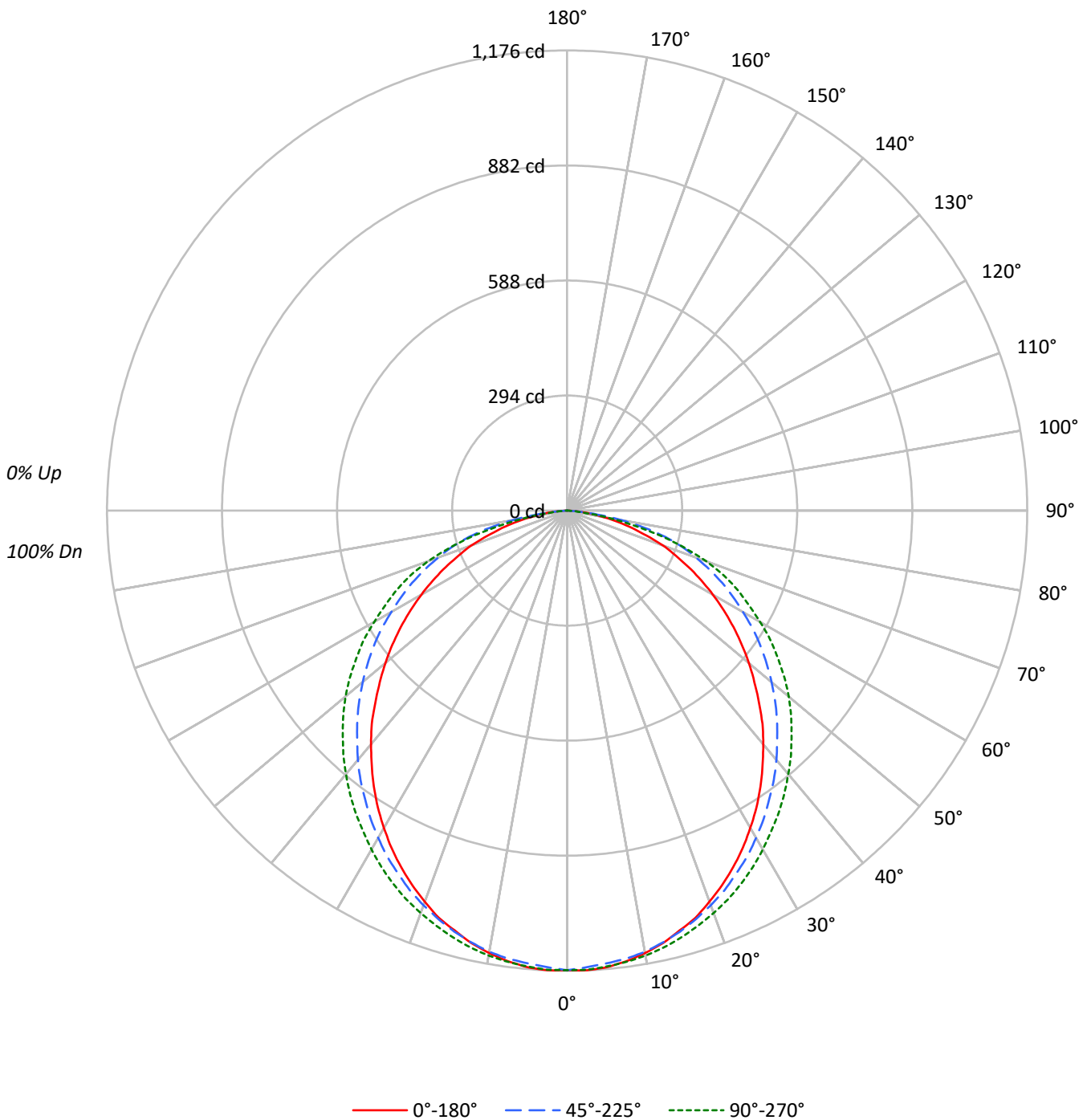
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3161	3161	3161
5°	3164	3137	3159
10°	3138	3129	3156
15°	3095	3104	3145
20°	3046	3074	3134
25°	2983	3037	3124
30°	2909	3001	3107
35°	2829	2958	3097
40°	2739	2922	3088
45°	2638	2887	3085
50°	2540	2854	3093
55°	2434	2831	3084
60°	2317	2792	3064
65°	2181	2784	3064
70°	2054	2759	2977
75°	1781	2697	2544
80°	1441	2174	1694
85°	957	756	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.4
10°-20°	315.6	9.6
20°-30°	473.4	14.4
30°-40°	564.7	17.2
40°-50°	583.8	17.7
50°-60°	533.0	16.2
60°-70°	419.4	12.7
70°-80°	244.2	7.4
80°-90°	45.0	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°	899.9	27.4
0°-40°	1464.6	44.5
0°-60°	2581.4	78.5
0°-90°	3290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1171	1168	1161	1171	1170	111
15°	1111	1112	1114	1129	1129	313
25°	1005	1010	1023	1047	1052	463
35°	861	873	900	935	943	538
45°	693	716	758	801	811	535
55°	519	546	604	648	657	464
65°	343	378	437	471	481	340
75°	171	212	259	254	245	182
85°	31	44	24	20	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.5	1174.5	1174.5	1174.5	1174.5
2.5°	1176.1	1172.8	1168.0	1176.1	1174.5
5°	1171.2	1168.0	1161.4	1171.2	1169.6
7.5°	1161.4	1158.2	1154.9	1164.7	1163.1
10°	1148.4	1146.7	1145.1	1156.5	1154.9
12.5°	1132.1	1132.1	1130.4	1143.5	1143.5
15°	1110.9	1112.5	1114.1	1128.8	1128.8
17.5°	1091.3	1089.7	1094.5	1110.9	1112.5
20°	1063.6	1066.8	1073.3	1092.9	1094.5
22.5°	1035.8	1039.1	1050.5	1070.1	1075.0
25°	1004.8	1009.7	1022.8	1047.2	1052.1
27.5°	972.2	978.7	996.7	1022.8	1027.7
30°	936.3	946.1	965.7	995.0	999.9
32.5°	900.4	910.2	934.7	964.0	970.6
35°	861.3	872.7	900.4	934.7	942.8
37.5°	820.5	835.2	867.8	902.1	911.8
40°	779.7	796.0	831.9	867.8	879.2
42.5°	738.9	755.3	794.4	835.2	846.6
45°	693.3	716.1	758.5	800.9	810.7
47.5°	649.2	673.7	721.0	763.4	776.5
50°	606.8	631.3	681.8	725.9	738.9
52.5°	562.8	588.9	642.7	688.4	699.8
55°	518.7	546.5	603.5	647.6	657.4
57.5°	474.7	504.0	562.8	605.2	616.6
60°	430.6	461.6	518.7	561.1	569.3
62.5°	386.6	419.2	477.9	515.5	523.6
65°	342.6	378.4	437.2	471.4	481.2
67.5°	300.1	336.0	393.1	425.7	433.9
70°	261.0	293.6	350.7	375.2	378.4
72.5°	212.1	252.8	308.3	321.3	313.2
75°	171.3	212.1	259.4	254.5	244.7
77.5°	130.5	171.3	202.3	186.0	172.9
80°	93.0	133.8	140.3	115.8	109.3
82.5°	60.4	93.0	78.3	60.4	48.9
85°	31.0	44.0	24.5	19.6	16.3
87.5°	9.8	6.5	3.3	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)