

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: P275403

Luminaire Tested: **14CZ2-35-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3294.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

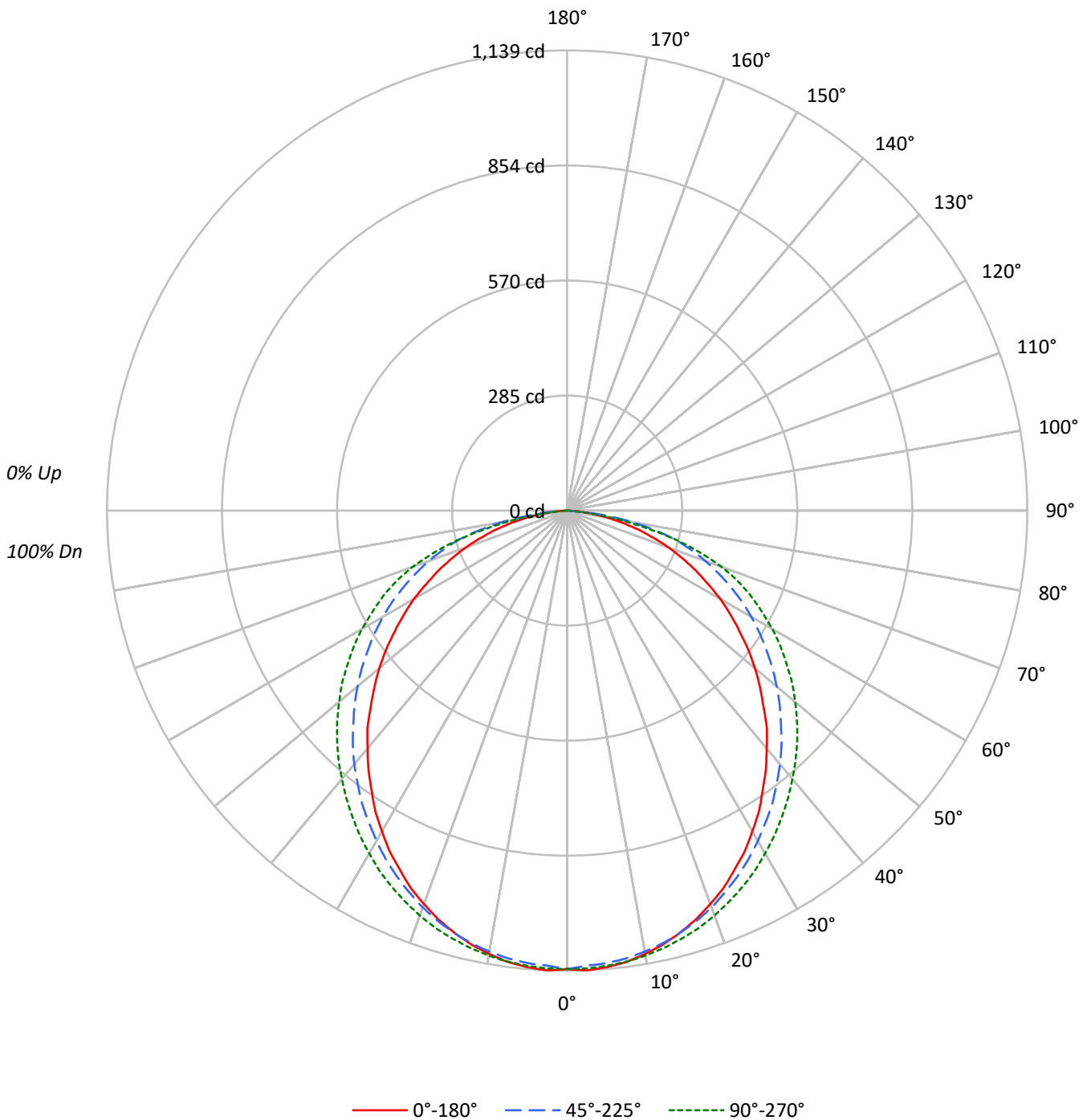
Input Watts (W): 27.342
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3054	3054	3054
5°	3063	3038	3055
10°	3045	3029	3057
15°	3012	3014	3055
20°	2968	2993	3054
25°	2911	2964	3051
30°	2848	2933	3045
35°	2772	2908	3043
40°	2699	2879	3047
45°	2616	2848	3064
50°	2540	2835	3084
55°	2443	2826	3111
60°	2356	2830	3154
65°	2236	2839	3203
70°	2098	2861	3201
75°	1902	2886	2895
80°	1559	2493	2060
85°	1158	1179	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.3
10°-20°	306.7	9.3
20°-30°	462.1	14.0
30°-40°	554.5	16.8
40°-50°	577.9	17.5
50°-60°	535.0	16.2
60°-70°	432.3	13.1
70°-80°	263.6	8.0
80°-90°	54.4	1.7
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°	876.2	26.6
0°-40°	1430.7	43.4
0°-60°	2543.7	77.2
0°-90°	3294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1134	1131	1124	1133	1131	108
15°	1081	1082	1082	1097	1097	305
25°	980	986	998	1023	1028	452
35°	844	857	885	917	926	529
45°	688	708	748	790	805	531
55°	521	548	602	649	663	467
65°	351	386	446	491	503	347
75°	183	223	278	282	278	192
85°	38	56	38	21	15	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.8	1134.8	1134.8	1134.8	1134.8
2.5°	1139.2	1135.5	1127.4	1135.5	1134.1
5°	1134.1	1131.1	1124.5	1132.6	1131.1
7.5°	1126.7	1123.8	1117.9	1127.4	1126.0
10°	1114.2	1112.8	1108.4	1119.4	1118.6
12.5°	1099.5	1098.8	1096.6	1109.1	1108.4
15°	1081.2	1081.9	1081.9	1096.6	1096.6
17.5°	1060.6	1062.1	1065.0	1081.2	1083.4
20°	1036.4	1039.3	1045.2	1063.5	1066.5
22.5°	1011.4	1013.6	1022.4	1044.5	1047.4
25°	980.5	986.4	998.2	1023.2	1027.6
27.5°	951.2	956.3	972.5	998.2	1005.5
30°	916.6	924.7	943.8	971.7	979.8
32.5°	883.6	892.4	914.4	946.8	954.1
35°	843.9	857.2	885.1	917.4	926.2
37.5°	807.9	820.4	852.0	887.3	897.6
40°	768.3	783.7	819.7	857.2	867.4
42.5°	731.6	746.2	785.2	823.4	837.3
45°	687.5	708.1	748.4	790.3	805.0
47.5°	647.1	667.7	713.9	758.7	772.0
50°	606.7	628.7	677.2	723.5	736.7
52.5°	564.8	588.3	640.5	686.8	702.2
55°	520.8	547.9	602.3	649.3	663.2
57.5°	478.9	506.8	564.8	612.6	626.5
60°	437.8	466.4	525.9	571.4	586.1
62.5°	392.2	426.0	487.7	532.5	543.5
65°	351.1	385.6	445.8	490.6	503.1
67.5°	307.8	345.2	405.4	446.6	458.3
70°	266.6	305.5	363.6	401.8	406.9
72.5°	222.6	262.2	321.0	345.2	345.2
75°	182.9	223.3	277.6	282.0	278.4
77.5°	139.6	184.4	219.6	210.8	202.0
80°	100.6	144.7	160.9	144.7	132.9
82.5°	67.6	105.0	97.0	77.1	68.3
85°	37.5	55.8	38.2	21.3	15.4
87.5°	14.0	12.5	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)