

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: P275644

Luminaire Tested: **14CZ2-35-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275644
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-L82765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3325.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

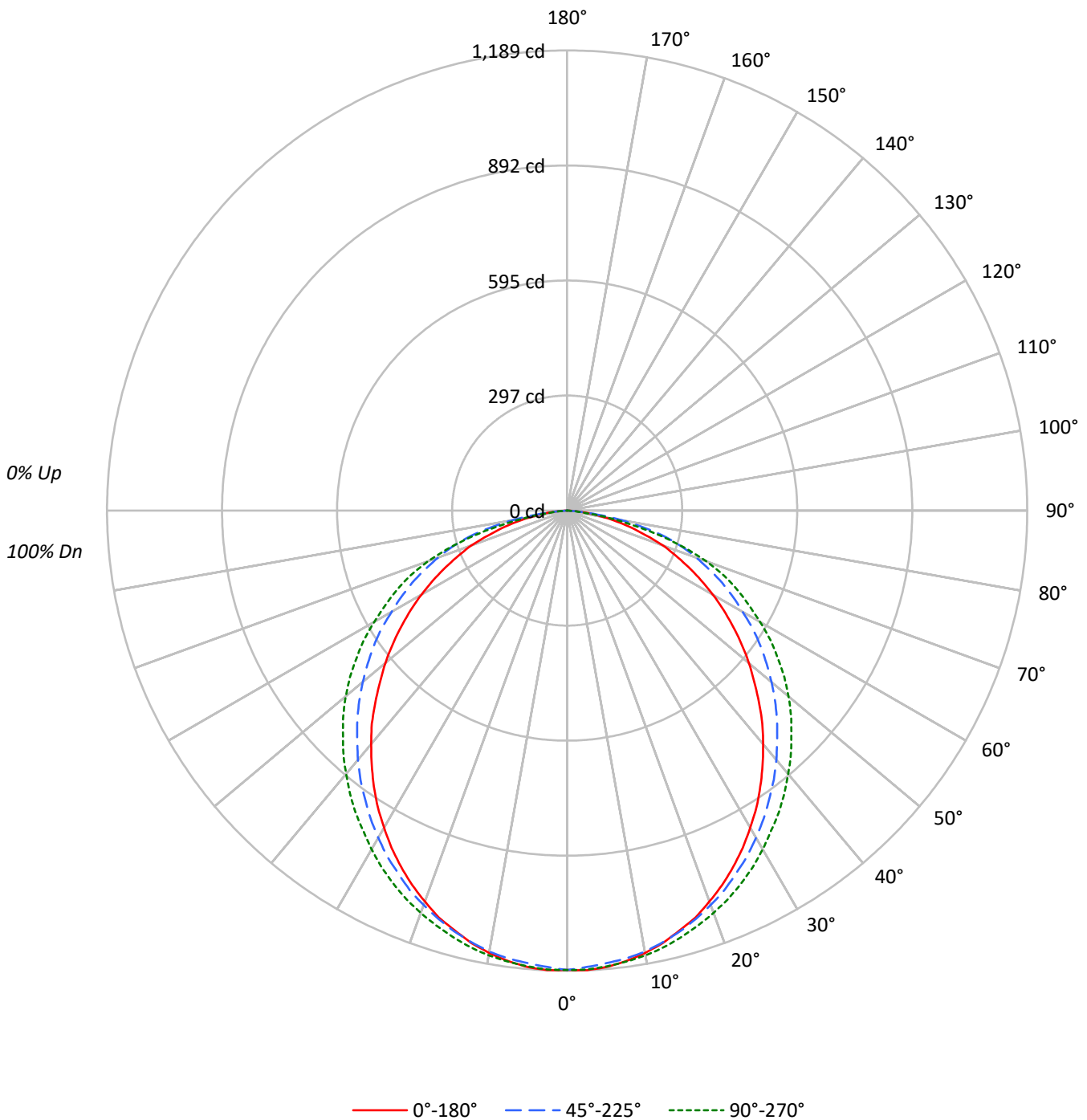
Input Watts (W): 27.249
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3194	3194	3194
5°	3197	3171	3193
10°	3171	3162	3189
15°	3128	3137	3178
20°	3078	3107	3168
25°	3015	3069	3157
30°	2940	3033	3140
35°	2859	2989	3130
40°	2768	2954	3121
45°	2666	2917	3118
50°	2568	2885	3126
55°	2459	2862	3117
60°	2342	2821	3097
65°	2204	2813	3096
70°	2076	2788	3009
75°	1800	2725	2571
80°	1457	2197	1712
85°	966	763	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.4
10°-20°	318.9	9.6
20°-30°	478.4	14.4
30°-40°	570.7	17.2
40°-50°	590.0	17.7
50°-60°	538.7	16.2
60°-70°	423.9	12.7
70°-80°	246.8	7.4
80°-90°	45.5	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°	909.5	27.4
0°-40°	1480.2	44.5
0°-60°	2608.9	78.5
0°-90°	3325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1184	1180	1174	1184	1182	112
15°	1123	1124	1126	1141	1141	317
25°	1016	1020	1034	1058	1063	468
35°	870	882	910	945	953	544
45°	701	724	767	809	819	541
55°	524	552	610	654	664	469
65°	346	382	442	476	486	344
75°	173	214	262	257	247	184
85°	31	44	25	20	16	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1187.0	1187.0	1187.0	1187.0	1187.0
2.5°	1188.6	1185.3	1180.4	1188.6	1187.0
5°	1183.7	1180.4	1173.8	1183.7	1182.0
7.5°	1173.8	1170.5	1167.2	1177.1	1175.4
10°	1160.6	1158.9	1157.3	1168.8	1167.2
12.5°	1144.1	1144.1	1142.5	1155.6	1155.6
15°	1122.7	1124.3	1126.0	1140.8	1140.8
17.5°	1102.9	1101.2	1106.2	1122.7	1124.3
20°	1074.9	1078.2	1084.8	1104.5	1106.2
22.5°	1046.8	1050.1	1061.7	1081.5	1086.4
25°	1015.5	1020.5	1033.7	1058.4	1063.3
27.5°	982.5	989.1	1007.3	1033.7	1038.6
30°	946.3	956.2	976.0	1005.6	1010.6
32.5°	910.0	919.9	944.6	974.3	980.9
35°	870.4	882.0	910.0	944.6	952.9
37.5°	829.2	844.1	877.0	911.7	921.6
40°	788.0	804.5	840.8	877.0	888.6
42.5°	746.8	763.3	802.9	844.1	855.6
45°	700.6	723.7	766.6	809.4	819.3
47.5°	656.1	680.9	728.7	771.5	784.7
50°	613.3	638.0	689.1	733.6	746.8
52.5°	568.8	595.1	649.5	695.7	707.2
55°	524.2	552.3	610.0	654.5	664.4
57.5°	479.7	509.4	568.8	611.6	623.2
60°	435.2	466.5	524.2	567.1	575.4
62.5°	390.7	423.7	483.0	520.9	529.2
65°	346.2	382.5	441.8	476.4	486.3
67.5°	303.3	339.6	397.3	430.3	438.5
70°	263.8	296.7	354.4	379.2	382.5
72.5°	214.3	255.5	311.6	324.8	316.5
75°	173.1	214.3	262.1	257.2	247.3
77.5°	131.9	173.1	204.4	187.9	174.7
80°	94.0	135.2	141.8	117.0	110.5
82.5°	61.0	94.0	79.1	61.0	49.5
85°	31.3	44.5	24.7	19.8	16.5
87.5°	9.9	6.6	3.3	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)