

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: P258624

Luminaire Tested: **14CZ-LD5-35-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-UNV-L82765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3337.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

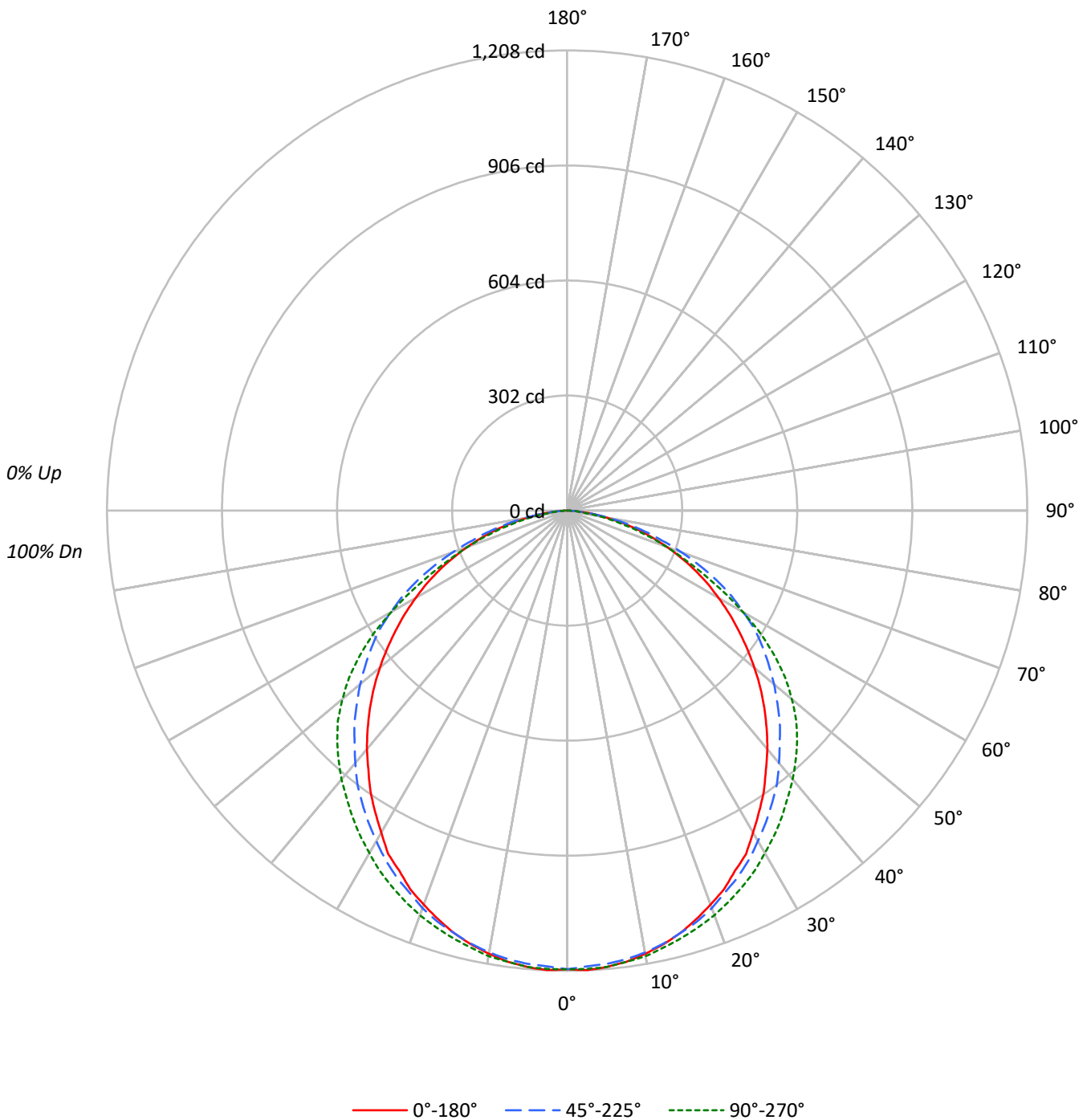
Input Watts (W): 27.249
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3240	3240	3240
5°	3249	3226	3249
10°	3228	3219	3246
15°	3199	3199	3236
20°	3152	3180	3237
25°	3097	3151	3234
30°	3031	3113	3226
35°	2956	3080	3226
40°	2872	3040	3236
45°	2786	3005	3249
50°	2686	2968	3223
55°	2578	2941	3118
60°	2470	2878	2869
65°	2357	2755	2514
70°	2187	2511	2175
75°	1984	2190	1796
80°	1581	1734	1325
85°	1118	966	763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.4
10°-20°	325.5	9.8
20°-30°	490.8	14.7
30°-40°	588.3	17.6
40°-50°	610.5	18.3
50°-60°	550.6	16.5
60°-70°	401.7	12.0
70°-80°	210.7	6.3
80°-90°	45.0	1.3
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°	930.2	27.9
0°-40°	1518.5	45.5
0°-60°	2679.6	80.3
0°-90°	3337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1203	1199	1194	1203	1203	114
15°	1148	1148	1148	1162	1162	323
25°	1043	1048	1061	1084	1089	481
35°	900	910	938	972	982	562
45°	732	747	790	837	854	564
55°	550	569	627	668	665	492
65°	370	392	433	416	395	366
75°	191	217	211	183	173	200
85°	36	44	31	26	25	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.2	1204.2	1204.2	1204.2	1204.2
2.5°	1207.5	1204.2	1197.6	1204.2	1204.2
5°	1202.6	1199.3	1194.4	1202.6	1202.6
7.5°	1194.4	1191.1	1187.8	1196.0	1194.4
10°	1181.2	1179.6	1177.9	1187.8	1187.8
12.5°	1166.4	1166.4	1164.7	1176.3	1174.6
15°	1148.3	1148.3	1148.3	1161.5	1161.5
17.5°	1125.3	1128.6	1131.8	1146.6	1146.6
20°	1100.6	1103.9	1110.5	1128.6	1130.2
22.5°	1075.9	1077.6	1084.1	1105.5	1110.5
25°	1043.0	1047.9	1061.1	1084.1	1089.1
27.5°	1016.7	1018.3	1033.1	1059.5	1066.0
30°	975.6	987.1	1001.9	1031.5	1038.1
32.5°	937.7	947.6	970.6	1001.9	1011.7
35°	899.9	909.8	937.7	972.3	982.1
37.5°	857.1	871.9	904.8	939.4	950.9
40°	817.6	830.8	865.3	908.1	921.3
42.5°	774.9	788.0	825.9	873.6	888.4
45°	732.1	746.9	789.7	837.4	853.8
47.5°	687.7	704.1	748.5	801.2	816.0
50°	641.6	659.7	709.0	763.3	769.9
52.5°	595.5	615.3	667.9	715.6	722.2
55°	549.5	569.2	626.8	667.9	664.6
57.5°	505.1	526.4	585.7	607.0	603.8
60°	459.0	482.0	534.7	544.5	533.0
62.5°	416.2	437.6	487.0	478.7	463.9
65°	370.2	391.5	432.7	416.2	394.8
67.5°	324.1	350.4	376.7	348.8	332.3
70°	278.0	307.6	319.2	291.2	276.4
72.5°	233.6	264.9	261.6	233.6	223.7
75°	190.8	217.2	210.6	182.6	172.7
77.5°	144.8	174.4	159.6	136.5	128.3
80°	102.0	128.3	111.9	92.1	85.5
82.5°	67.4	85.5	69.1	54.3	49.4
85°	36.2	44.4	31.3	26.3	24.7
87.5°	14.8	13.2	11.5	11.5	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)