

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: P275480

Luminaire Tested: **14CZ2-35-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275480
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-L82765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3589.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

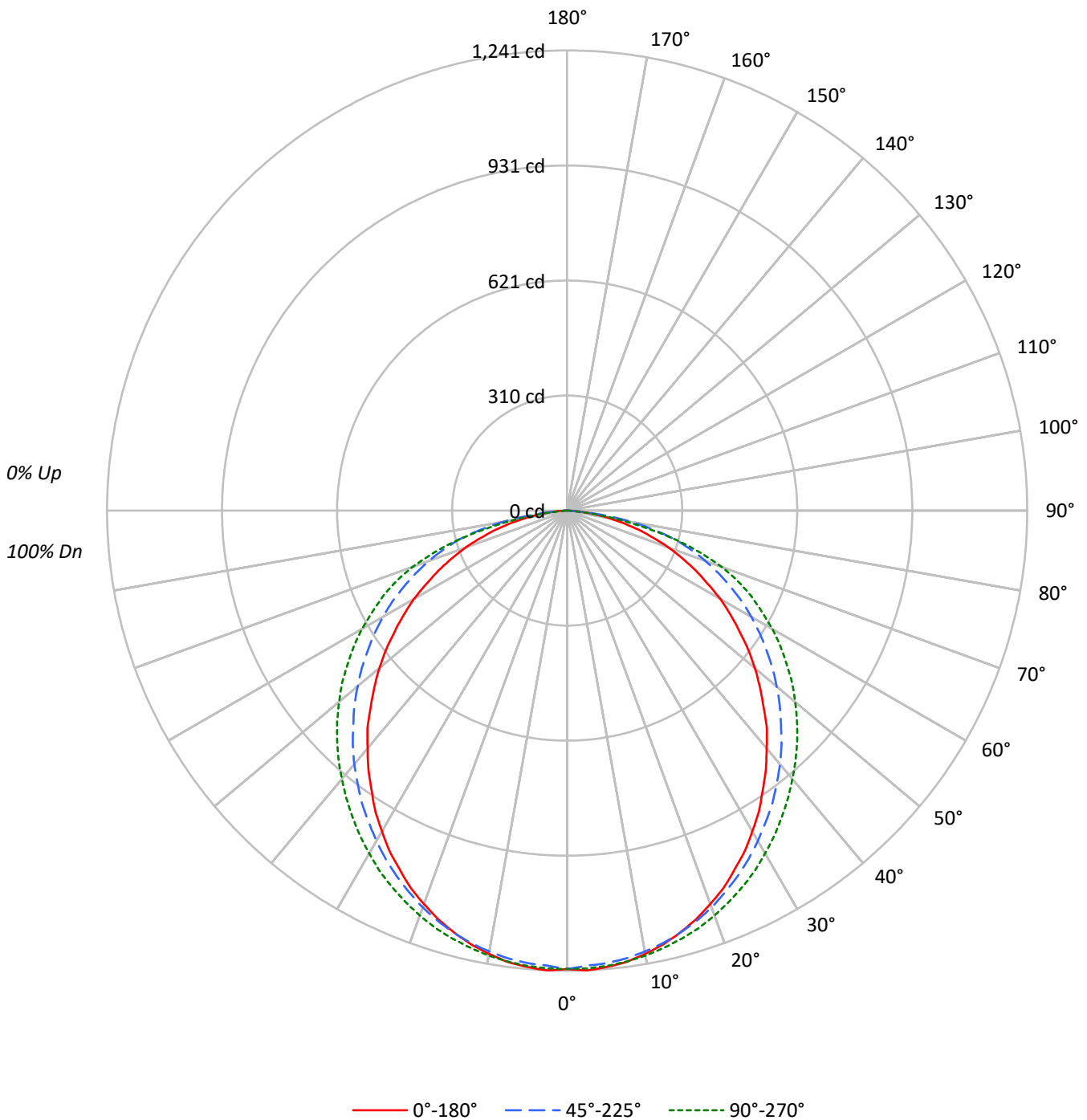
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3327	3327	3327
5°	3338	3310	3329
10°	3317	3300	3330
15°	3282	3284	3329
20°	3234	3261	3328
25°	3172	3229	3324
30°	3103	3196	3317
35°	3021	3168	3315
40°	2941	3137	3320
45°	2851	3103	3338
50°	2767	3089	3360
55°	2662	3079	3390
60°	2567	3084	3437
65°	2436	3093	3491
70°	2286	3116	3489
75°	2072	3145	3153
80°	1698	2717	2244
85°	1260	1284	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.3
10°-20°	334.2	9.3
20°-30°	503.5	14.0
30°-40°	604.2	16.8
40°-50°	629.7	17.5
50°-60°	583.0	16.2
60°-70°	471.0	13.1
70°-80°	287.2	8.0
80°-90°	59.3	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°	954.7	26.6
0°-40°	1558.8	43.4
0°-60°	2771.5	77.2
0°-90°	3589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1236	1232	1225	1234	1232	117
15°	1178	1179	1179	1195	1195	332
25°	1068	1075	1088	1115	1120	492
35°	920	934	964	1000	1009	576
45°	749	772	816	861	877	579
55°	567	597	656	707	723	508
65°	382	420	486	535	548	378
75°	199	243	302	307	303	209
85°	41	61	42	23	17	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1241.2	1237.2	1228.4	1237.2	1235.6
5°	1235.6	1232.4	1225.2	1234.0	1232.4
7.5°	1227.6	1224.4	1218.0	1228.4	1226.8
10°	1214.0	1212.4	1207.6	1219.6	1218.8
12.5°	1198.0	1197.2	1194.8	1208.4	1207.6
15°	1178.0	1178.8	1178.8	1194.8	1194.8
17.5°	1155.6	1157.2	1160.4	1178.0	1180.4
20°	1129.2	1132.4	1138.8	1158.8	1162.0
22.5°	1102.0	1104.4	1114.0	1138.0	1141.2
25°	1068.4	1074.8	1087.6	1114.8	1119.6
27.5°	1036.4	1042.0	1059.6	1087.6	1095.6
30°	998.7	1007.5	1028.4	1058.8	1067.6
32.5°	962.7	972.3	996.3	1031.6	1039.6
35°	919.5	933.9	964.3	999.5	1009.1
37.5°	880.3	893.9	928.3	966.7	977.9
40°	837.1	853.9	893.1	933.9	945.1
42.5°	797.1	813.1	855.5	897.1	912.3
45°	749.1	771.5	815.5	861.1	877.1
47.5°	705.0	727.4	777.9	826.7	841.1
50°	661.0	685.0	737.9	788.3	802.7
52.5°	615.4	641.0	697.8	748.3	765.1
55°	567.4	597.0	656.2	707.4	722.6
57.5°	521.8	552.2	615.4	667.4	682.6
60°	477.0	508.2	573.0	622.6	638.6
62.5°	427.3	464.2	531.4	580.2	592.2
65°	382.5	420.1	485.8	534.6	548.2
67.5°	335.3	376.1	441.8	486.6	499.4
70°	290.5	332.9	396.1	437.7	443.4
72.5°	242.5	285.7	349.7	376.1	376.1
75°	199.3	243.3	302.5	307.3	303.3
77.5°	152.1	200.9	239.3	229.7	220.1
80°	109.6	157.7	175.3	157.7	144.8
82.5°	73.6	114.4	105.6	84.0	74.4
85°	40.8	60.8	41.6	23.2	16.8
87.5°	15.2	13.6	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)