

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: P258689

Luminaire Tested: **14CZ-LD5-39-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258689
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-LD5-39-UNV-L92765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3445.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

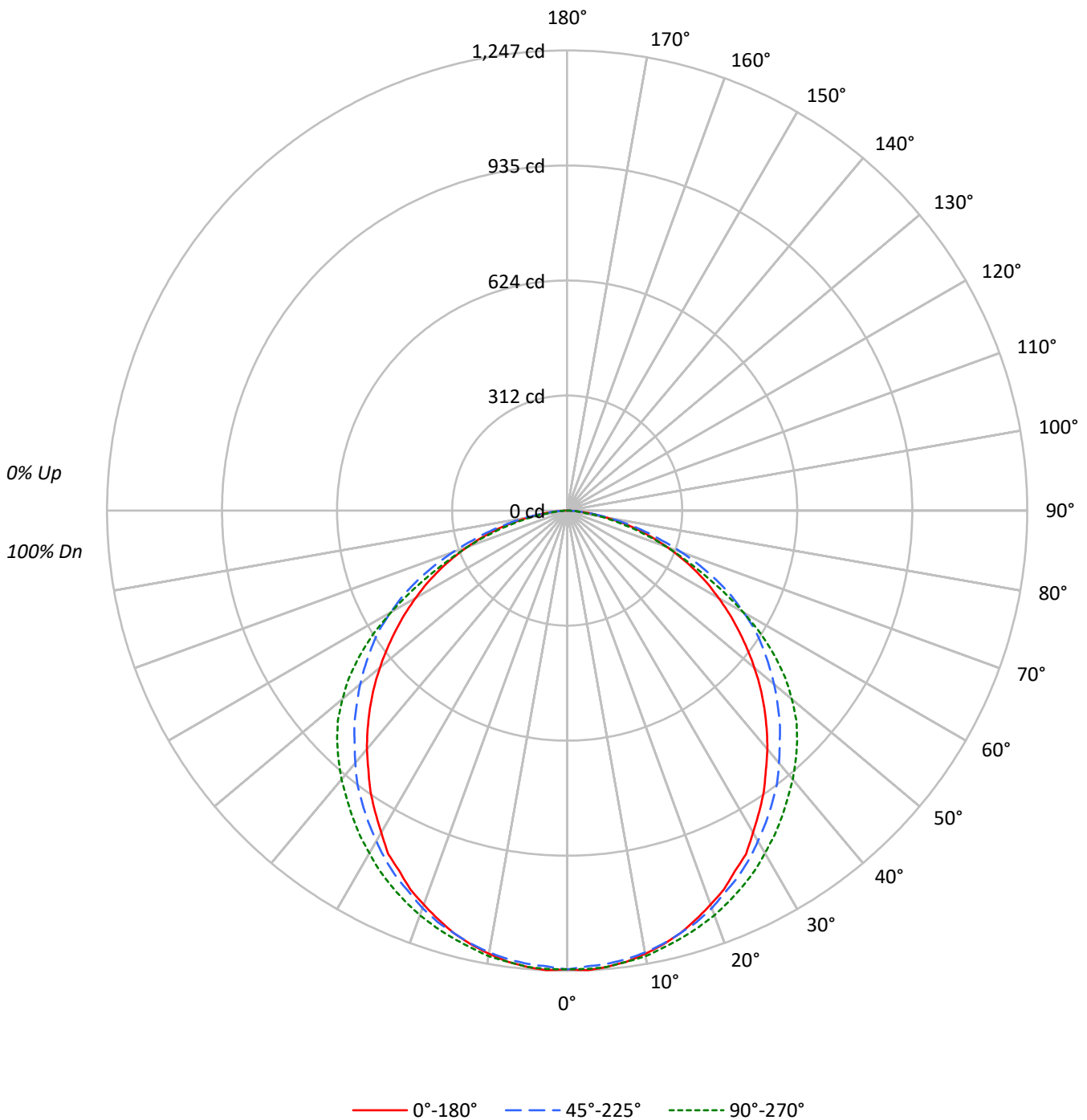
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3345	3345	3345
5°	3354	3331	3354
10°	3332	3323	3351
15°	3303	3303	3340
20°	3254	3283	3341
25°	3197	3252	3338
30°	3129	3214	3330
35°	3052	3180	3331
40°	2965	3138	3341
45°	2876	3102	3355
50°	2773	3064	3327
55°	2662	3036	3219
60°	2550	2971	2962
65°	2433	2844	2595
70°	2258	2592	2245
75°	2048	2260	1854
80°	1632	1790	1368
85°	1155	997	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	3.4
10°-20°	336.0	9.8
20°-30°	506.7	14.7
30°-40°	607.3	17.6
40°-50°	630.3	18.3
50°-60°	568.5	16.5
60°-70°	414.7	12.0
70°-80°	217.6	6.3
80°-90°	46.4	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°	960.3	27.9
0°-40°	1567.6	45.5
0°-60°	2766.4	80.3
0°-90°	3445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1242	1238	1233	1242	1242	118
15°	1186	1186	1186	1199	1199	334
25°	1077	1082	1095	1119	1124	497
35°	929	939	968	1004	1014	580
45°	756	771	815	864	882	583
55°	567	588	647	690	686	508
65°	382	404	447	430	408	378
75°	197	224	217	188	178	207
85°	37	46	32	27	26	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.2	1243.2	1243.2	1243.2	1243.2
2.5°	1246.6	1243.2	1236.4	1243.2	1243.2
5°	1241.5	1238.1	1233.0	1241.5	1241.5
7.5°	1233.0	1229.6	1226.2	1234.7	1233.0
10°	1219.4	1217.7	1216.0	1226.2	1226.2
12.5°	1204.1	1204.1	1202.4	1214.3	1212.6
15°	1185.5	1185.5	1185.5	1199.0	1199.0
17.5°	1161.7	1165.1	1168.5	1183.8	1183.8
20°	1136.2	1139.6	1146.4	1165.1	1166.8
22.5°	1110.7	1112.4	1119.2	1141.3	1146.4
25°	1076.8	1081.9	1095.4	1119.2	1124.3
27.5°	1049.6	1051.3	1066.6	1093.7	1100.5
30°	1007.1	1019.0	1034.3	1064.9	1071.7
32.5°	968.1	978.3	1002.0	1034.3	1044.5
35°	929.0	939.2	968.1	1003.7	1013.9
37.5°	884.8	900.1	934.1	969.8	981.7
40°	844.1	857.7	893.3	937.5	951.1
42.5°	799.9	813.5	852.6	901.8	917.1
45°	755.8	771.1	815.2	864.5	881.5
47.5°	709.9	726.9	772.8	827.1	842.4
50°	662.4	681.0	732.0	788.0	794.8
52.5°	614.8	635.2	689.5	738.8	745.6
55°	567.3	587.6	647.1	689.5	686.1
57.5°	521.4	543.5	604.6	626.7	623.3
60°	473.8	497.6	552.0	562.2	550.3
62.5°	429.7	451.8	502.7	494.2	478.9
65°	382.1	404.2	446.7	429.7	407.6
67.5°	334.6	361.8	388.9	360.1	343.1
70°	287.0	317.6	329.5	300.6	285.3
72.5°	241.2	273.4	270.0	241.2	231.0
75°	197.0	224.2	217.4	188.5	178.3
77.5°	149.5	180.0	164.7	141.0	132.5
80°	105.3	132.5	115.5	95.1	88.3
82.5°	69.6	88.3	71.3	56.0	51.0
85°	37.4	45.9	32.3	27.2	25.5
87.5°	15.3	13.6	11.9	11.9	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)