

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: P258556

Luminaire Tested: **14CZ-LD5-39-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258556
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-L83050-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: 3686.4 lumens
Efficiency: N/A
Efficacy: 119.4 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

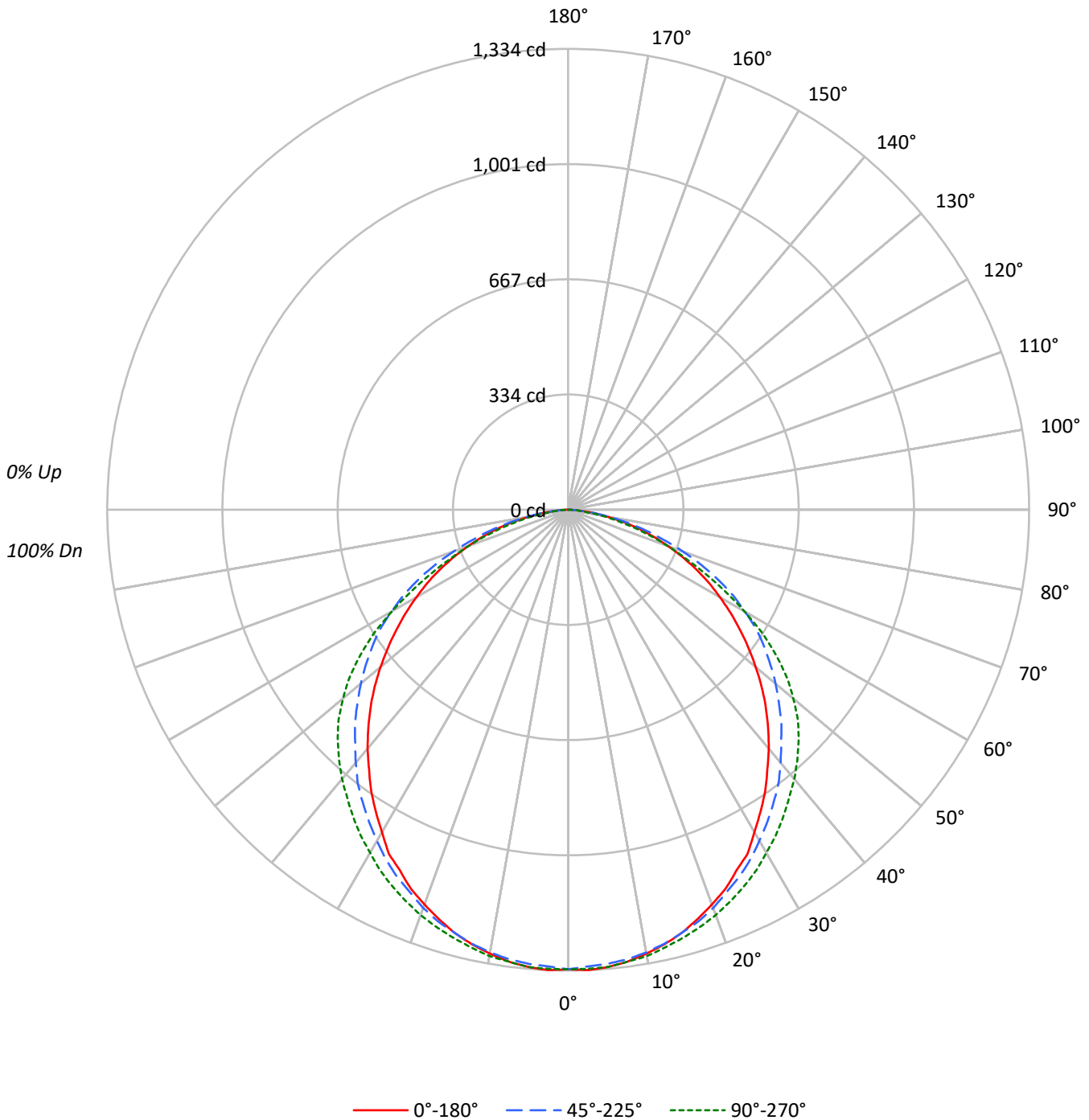
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3580	3580	3580
5°	3589	3564	3589
10°	3566	3556	3586
15°	3534	3534	3575
20°	3482	3513	3576
25°	3421	3480	3572
30°	3349	3439	3563
35°	3266	3403	3564
40°	3173	3358	3575
45°	3078	3320	3589
50°	2967	3279	3561
55°	2848	3248	3445
60°	2729	3179	3169
65°	2604	3044	2777
70°	2416	2774	2402
75°	2192	2418	1984
80°	1746	1915	1464
85°	1235	1065	843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.4
10°-20°	359.6	9.8
20°-30°	542.2	14.7
30°-40°	649.9	17.6
40°-50°	674.4	18.3
50°-60°	608.3	16.5
60°-70°	443.7	12.0
70°-80°	232.8	6.3
80°-90°	49.7	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°	1027.6	27.9
0°-40°	1677.5	45.5
0°-60°	2960.2	80.3
0°-90°	3686.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3686.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1328	1325	1319	1328	1328	126
15°	1268	1268	1268	1283	1283	357
25°	1152	1158	1172	1198	1203	532
35°	994	1005	1036	1074	1085	621
45°	809	825	872	925	943	623
55°	607	629	692	738	734	543
65°	409	432	478	460	436	404
75°	211	240	233	202	191	221
85°	40	49	34	29	27	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.3	1330.3	1330.3	1330.3	1330.3
2.5°	1334.0	1330.3	1323.1	1330.3	1330.3
5°	1328.5	1324.9	1319.4	1328.5	1328.5
7.5°	1319.4	1315.8	1312.2	1321.2	1319.4
10°	1304.9	1303.1	1301.3	1312.2	1312.2
12.5°	1288.5	1288.5	1286.7	1299.4	1297.6
15°	1268.5	1268.5	1268.5	1283.1	1283.1
17.5°	1243.1	1246.7	1250.4	1266.7	1266.7
20°	1215.8	1219.5	1226.7	1246.7	1248.6
22.5°	1188.6	1190.4	1197.7	1221.3	1226.7
25°	1152.2	1157.7	1172.2	1197.7	1203.1
27.5°	1123.2	1125.0	1141.3	1170.4	1177.7
30°	1077.7	1090.4	1106.8	1139.5	1146.8
32.5°	1035.9	1046.8	1072.3	1106.8	1117.7
35°	994.1	1005.0	1035.9	1074.1	1085.0
37.5°	946.9	963.2	999.6	1037.7	1050.5
40°	903.2	917.8	956.0	1003.2	1017.7
42.5°	856.0	870.5	912.3	965.0	981.4
45°	808.7	825.1	872.3	925.1	943.2
47.5°	759.7	777.8	826.9	885.1	901.4
50°	708.8	728.8	783.3	843.3	850.5
52.5°	657.9	679.7	737.9	790.6	797.8
55°	607.0	628.8	692.4	737.9	734.2
57.5°	557.9	581.6	647.0	670.6	667.0
60°	507.1	532.5	590.7	601.6	588.8
62.5°	459.8	483.4	537.9	528.9	512.5
65°	408.9	432.5	478.0	459.8	436.2
67.5°	358.0	387.1	416.2	385.3	367.1
70°	307.1	339.9	352.6	321.7	305.3
72.5°	258.1	292.6	289.0	258.1	247.2
75°	210.8	239.9	232.6	201.7	190.8
77.5°	159.9	192.6	176.3	150.8	141.8
80°	112.7	141.8	123.6	101.8	94.5
82.5°	74.5	94.5	76.3	60.0	54.5
85°	40.0	49.1	34.5	29.1	27.3
87.5°	16.4	14.5	12.7	12.7	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)