

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: P258591

Luminaire Tested: **14CZ-LD5-44-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258591
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-LD5-44-UNV-L93050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3393.0 lumens
Efficiency: N/A
Efficacy: 93.1 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

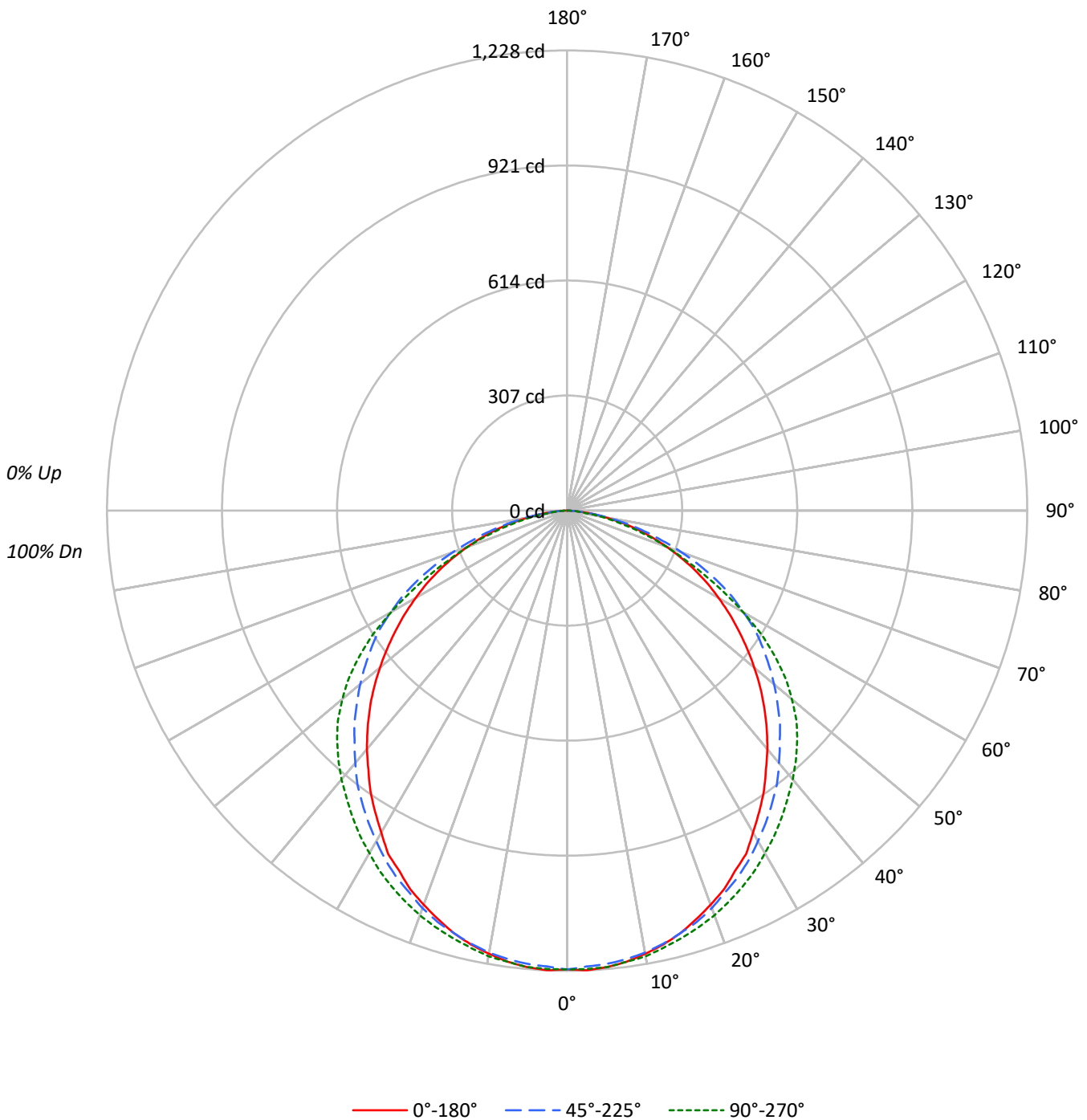
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3295	3295	3295
5°	3303	3280	3303
10°	3282	3273	3300
15°	3253	3253	3290
20°	3205	3233	3291
25°	3149	3203	3288
30°	3082	3165	3280
35°	3006	3132	3280
40°	2920	3091	3290
45°	2833	3056	3304
50°	2731	3018	3277
55°	2621	2990	3171
60°	2512	2926	2917
65°	2397	2801	2557
70°	2224	2553	2211
75°	2017	2226	1826
80°	1607	1762	1348
85°	1136	982	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	3.4
10°-20°	331.0	9.8
20°-30°	499.0	14.7
30°-40°	598.1	17.6
40°-50°	620.7	18.3
50°-60°	559.9	16.5
60°-70°	408.4	12.0
70°-80°	214.3	6.3
80°-90°	45.7	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°	945.8	27.9
0°-40°	1544.0	45.5
0°-60°	2724.6	80.3
0°-90°	3393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1223	1219	1214	1223	1223	116
15°	1168	1168	1168	1181	1181	329
25°	1060	1066	1079	1102	1107	489
35°	915	925	954	989	999	572
45°	744	759	803	851	868	574
55°	559	579	637	679	676	500
65°	376	398	440	423	402	372
75°	194	221	214	186	176	203
85°	37	45	32	27	25	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.4	1224.4	1224.4	1224.4	1224.4
2.5°	1227.8	1224.4	1217.7	1224.4	1224.4
5°	1222.8	1219.4	1214.4	1222.8	1222.8
7.5°	1214.4	1211.1	1207.7	1216.1	1214.4
10°	1201.0	1199.3	1197.7	1207.7	1207.7
12.5°	1186.0	1186.0	1184.3	1196.0	1194.3
15°	1167.6	1167.6	1167.6	1180.9	1180.9
17.5°	1144.1	1147.5	1150.8	1165.9	1165.9
20°	1119.1	1122.4	1129.1	1147.5	1149.2
22.5°	1094.0	1095.6	1102.3	1124.1	1129.1
25°	1060.5	1065.5	1078.9	1102.3	1107.3
27.5°	1033.7	1035.4	1050.5	1077.2	1083.9
30°	991.9	1003.6	1018.7	1048.8	1055.5
32.5°	953.5	963.5	986.9	1018.7	1028.7
35°	915.0	925.0	953.5	988.6	998.6
37.5°	871.5	886.5	920.0	955.1	966.8
40°	831.3	844.7	879.9	923.3	936.7
42.5°	787.9	801.2	839.7	888.2	903.3
45°	744.4	759.4	802.9	851.4	868.1
47.5°	699.2	715.9	761.1	814.6	829.7
50°	652.4	670.8	720.9	776.1	782.8
52.5°	605.5	625.6	679.1	727.6	734.3
55°	558.7	578.8	637.3	679.1	675.8
57.5°	513.5	535.3	595.5	617.2	613.9
60°	466.7	490.1	543.6	553.7	542.0
62.5°	423.2	444.9	495.1	486.8	471.7
65°	376.4	398.1	439.9	423.2	401.5
67.5°	329.5	356.3	383.1	354.6	337.9
70°	282.7	312.8	324.5	296.1	281.0
72.5°	237.5	269.3	266.0	237.5	227.5
75°	194.0	220.8	214.1	185.7	175.6
77.5°	147.2	177.3	162.3	138.8	130.5
80°	103.7	130.5	113.7	93.7	87.0
82.5°	68.6	87.0	70.3	55.2	50.2
85°	36.8	45.2	31.8	26.8	25.1
87.5°	15.1	13.4	11.7	11.7	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)