

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: P230547

Luminaire Tested: **22CZ-LD5-34-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

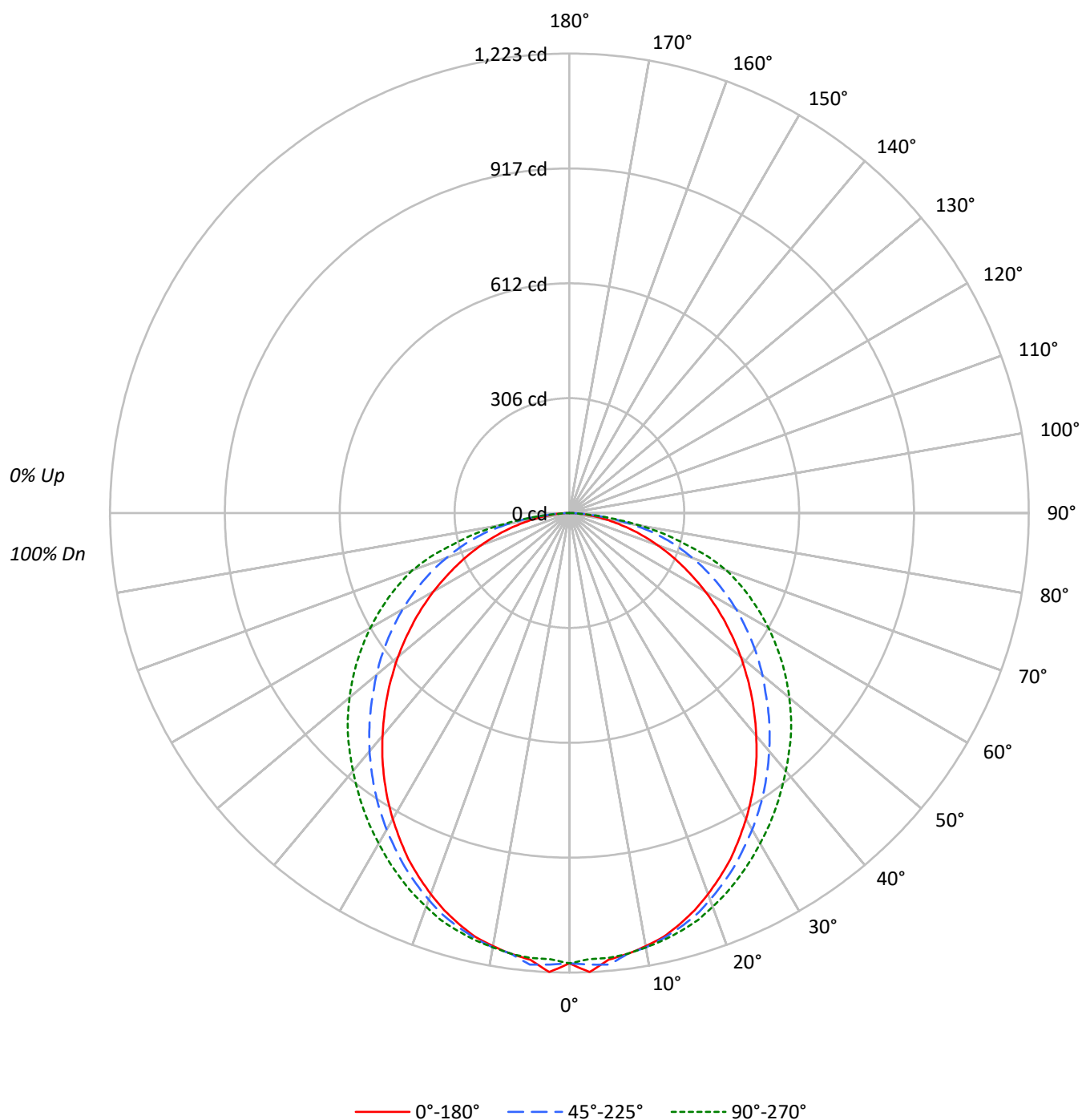
Input Watts (W): 29.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3224	3224	3224
5°	3223	3259	3210
10°	3198	3207	3207
15°	3156	3179	3206
20°	3090	3137	3193
25°	3015	3083	3175
30°	2922	3023	3155
35°	2826	2966	3148
40°	2718	2908	3148
45°	2609	2852	3175
50°	2494	2809	3198
55°	2374	2780	3240
60°	2249	2759	3295
65°	2110	2744	3378
70°	1965	2736	3493
75°	1782	2732	3309
80°	1543	2529	2935
85°	1309	1914	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.4
10°-20°	321.9	9.6
20°-30°	478.9	14.3
30°-40°	566.4	16.9
40°-50°	582.1	17.3
50°-60°	531.9	15.8
60°-70°	425.5	12.7
70°-80°	267.0	8.0
80°-90°	69.6	2.1
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°	914.4	27.2
0°-40°	1480.8	44.1
0°-60°	2594.9	77.3
0°-90°	3357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1193	1193	1206	1198	1188	113
15°	1133	1135	1141	1148	1151	319
25°	1015	1022	1038	1056	1069	467
35°	860	872	903	937	958	538
45°	686	704	749	805	834	529
55°	506	530	593	658	690	453
65°	331	361	431	496	530	329
75°	171	204	263	302	318	182
85°	42	54	62	60	60	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.2	1198.2	1198.2	1198.2	1198.2
2.5°	1222.7	1217.8	1203.1	1193.3	1188.4
5°	1193.3	1193.3	1206.4	1198.2	1188.4
7.5°	1183.5	1183.5	1183.5	1208.0	1183.5
10°	1170.5	1172.1	1173.7	1183.5	1173.7
12.5°	1155.8	1155.8	1159.0	1162.3	1163.9
15°	1132.9	1134.6	1141.1	1147.6	1150.9
17.5°	1108.4	1113.3	1121.5	1129.7	1136.2
20°	1079.1	1085.6	1095.4	1108.4	1115.0
22.5°	1048.0	1054.6	1067.6	1082.3	1093.7
25°	1015.4	1021.9	1038.2	1056.2	1069.3
27.5°	977.8	986.0	1005.6	1030.1	1043.1
30°	940.3	950.1	972.9	1000.7	1015.4
32.5°	901.1	912.5	938.7	969.7	987.6
35°	860.3	871.7	902.8	937.0	958.3
37.5°	817.9	830.9	865.2	904.4	927.2
40°	773.8	788.5	827.7	870.1	896.2
42.5°	729.7	746.0	788.5	839.1	865.2
45°	685.6	703.6	749.3	804.8	834.2
47.5°	639.9	661.1	708.5	770.5	799.9
50°	595.8	617.1	670.9	734.6	764.0
52.5°	550.1	574.6	631.8	697.1	728.1
55°	506.1	530.5	592.6	657.9	690.5
57.5°	462.0	486.5	551.8	618.7	651.4
60°	417.9	444.0	512.6	577.9	612.2
62.5°	373.8	401.6	471.8	538.7	571.4
65°	331.4	360.8	431.0	496.3	530.5
67.5°	290.6	321.6	390.2	453.8	488.1
70°	249.8	280.8	347.7	409.7	444.0
72.5°	210.6	241.6	306.9	362.4	388.5
75°	171.4	204.1	262.8	302.0	318.3
77.5°	133.9	166.5	217.1	243.2	261.2
80°	99.6	127.3	163.2	182.8	189.4
82.5°	68.6	91.4	114.3	119.2	122.4
85°	42.4	53.9	62.0	60.4	60.4
87.5°	19.6	21.2	18.0	13.1	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)