

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: P259224

Luminaire Tested: **22CZ-LD5-34-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259224
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-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3436.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

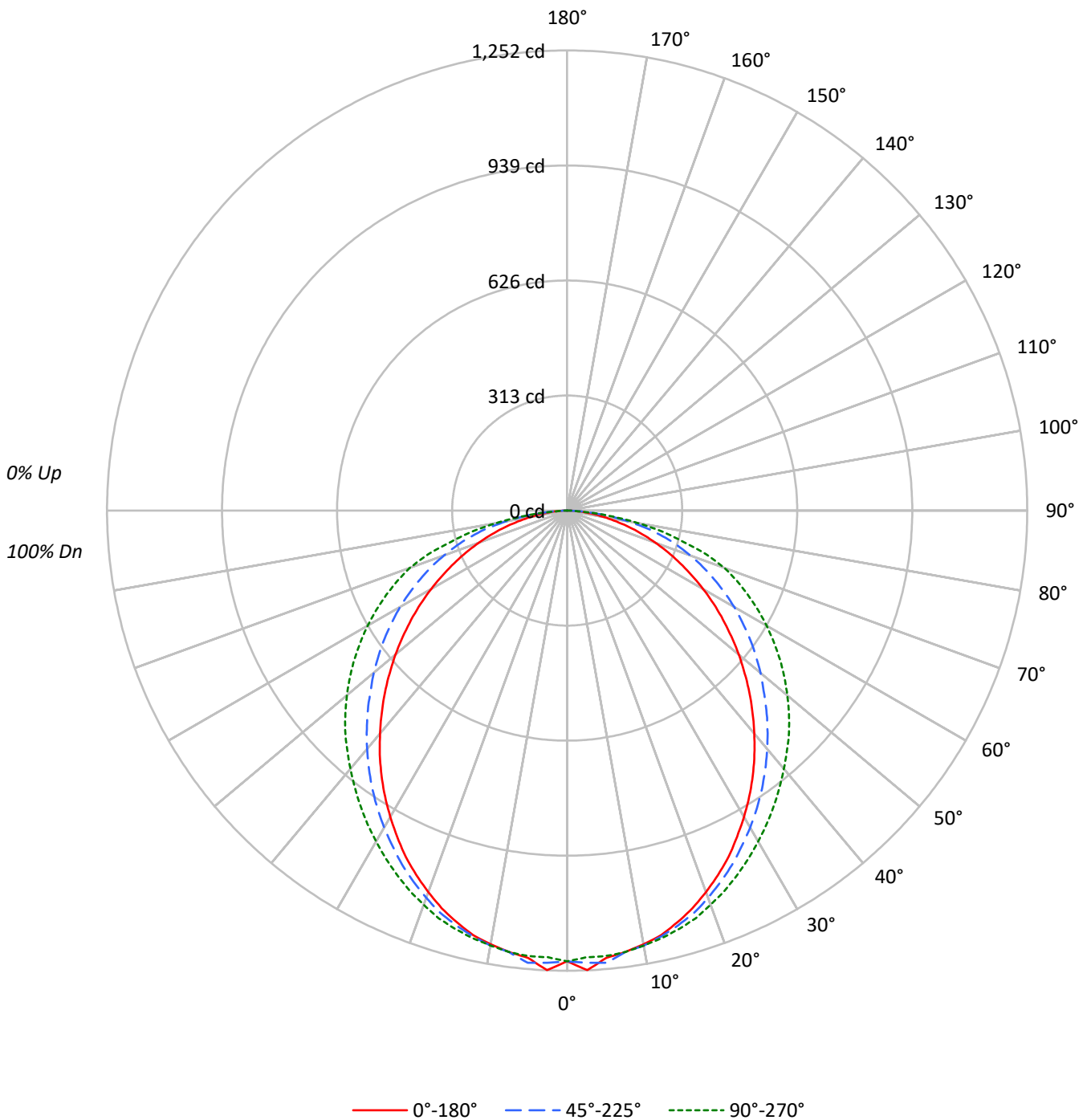
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3300	3300	3300
5°	3299	3336	3286
10°	3274	3283	3283
15°	3231	3254	3282
20°	3163	3211	3268
25°	3086	3155	3249
30°	2990	3094	3229
35°	2893	3035	3222
40°	2782	2976	3222
45°	2671	2919	3249
50°	2553	2875	3274
55°	2430	2845	3316
60°	2302	2824	3372
65°	2160	2809	3457
70°	2011	2800	3576
75°	1824	2797	3387
80°	1579	2590	3003
85°	1340	1961	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	3.4
10°-20°	329.5	9.6
20°-30°	490.2	14.3
30°-40°	579.7	16.9
40°-50°	595.8	17.3
50°-60°	544.5	15.8
60°-70°	435.5	12.7
70°-80°	273.3	8.0
80°-90°	71.2	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°	936.0	27.2
0°-40°	1515.7	44.1
0°-60°	2655.9	77.3
0°-90°	3436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1221	1221	1235	1226	1216	116
15°	1160	1161	1168	1175	1178	327
25°	1039	1046	1063	1081	1094	478
35°	881	892	924	959	981	550
45°	702	720	767	824	854	541
55°	518	543	606	673	707	463
65°	339	369	441	508	543	337
75°	175	209	269	309	326	186
85°	43	55	64	62	62	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1251.5	1246.5	1231.4	1221.4	1216.4
5°	1221.4	1221.4	1234.8	1226.4	1216.4
7.5°	1211.4	1211.4	1211.4	1236.4	1211.4
10°	1198.0	1199.7	1201.4	1211.4	1201.4
12.5°	1183.0	1183.0	1186.3	1189.7	1191.3
15°	1159.6	1161.3	1167.9	1174.6	1178.0
17.5°	1134.5	1139.5	1147.9	1156.2	1162.9
20°	1104.5	1111.1	1121.2	1134.5	1141.2
22.5°	1072.7	1079.4	1092.8	1107.8	1119.5
25°	1039.3	1046.0	1062.7	1081.1	1094.4
27.5°	1000.9	1009.2	1029.3	1054.3	1067.7
30°	962.4	972.5	995.8	1024.2	1039.3
32.5°	922.3	934.0	960.8	992.5	1010.9
35°	880.6	892.2	924.0	959.1	980.8
37.5°	837.1	850.5	885.6	925.7	949.1
40°	792.0	807.0	847.1	890.6	917.3
42.5°	746.9	763.6	807.0	858.8	885.6
45°	701.8	720.1	766.9	823.7	853.8
47.5°	655.0	676.7	725.2	788.7	818.7
50°	609.9	631.6	686.7	751.9	782.0
52.5°	563.1	588.1	646.6	713.5	745.2
55°	518.0	543.0	606.5	673.4	706.8
57.5°	472.9	497.9	564.8	633.3	666.7
60°	427.7	454.5	524.7	591.5	626.6
62.5°	382.6	411.0	482.9	551.4	584.8
65°	339.2	369.3	441.1	507.9	543.0
67.5°	297.4	329.2	399.3	464.5	499.6
70°	255.6	287.4	355.9	419.4	454.5
72.5°	215.5	247.3	314.1	370.9	397.7
75°	175.4	208.9	269.0	309.1	325.8
77.5°	137.0	170.4	222.2	249.0	267.3
80°	101.9	130.3	167.1	187.1	193.8
82.5°	70.2	93.6	117.0	122.0	125.3
85°	43.4	55.1	63.5	61.8	61.8
87.5°	20.1	21.7	18.4	13.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)