

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: P259302

Luminaire Tested: **22CZ-LD5-34-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259302
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-L82765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3582.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

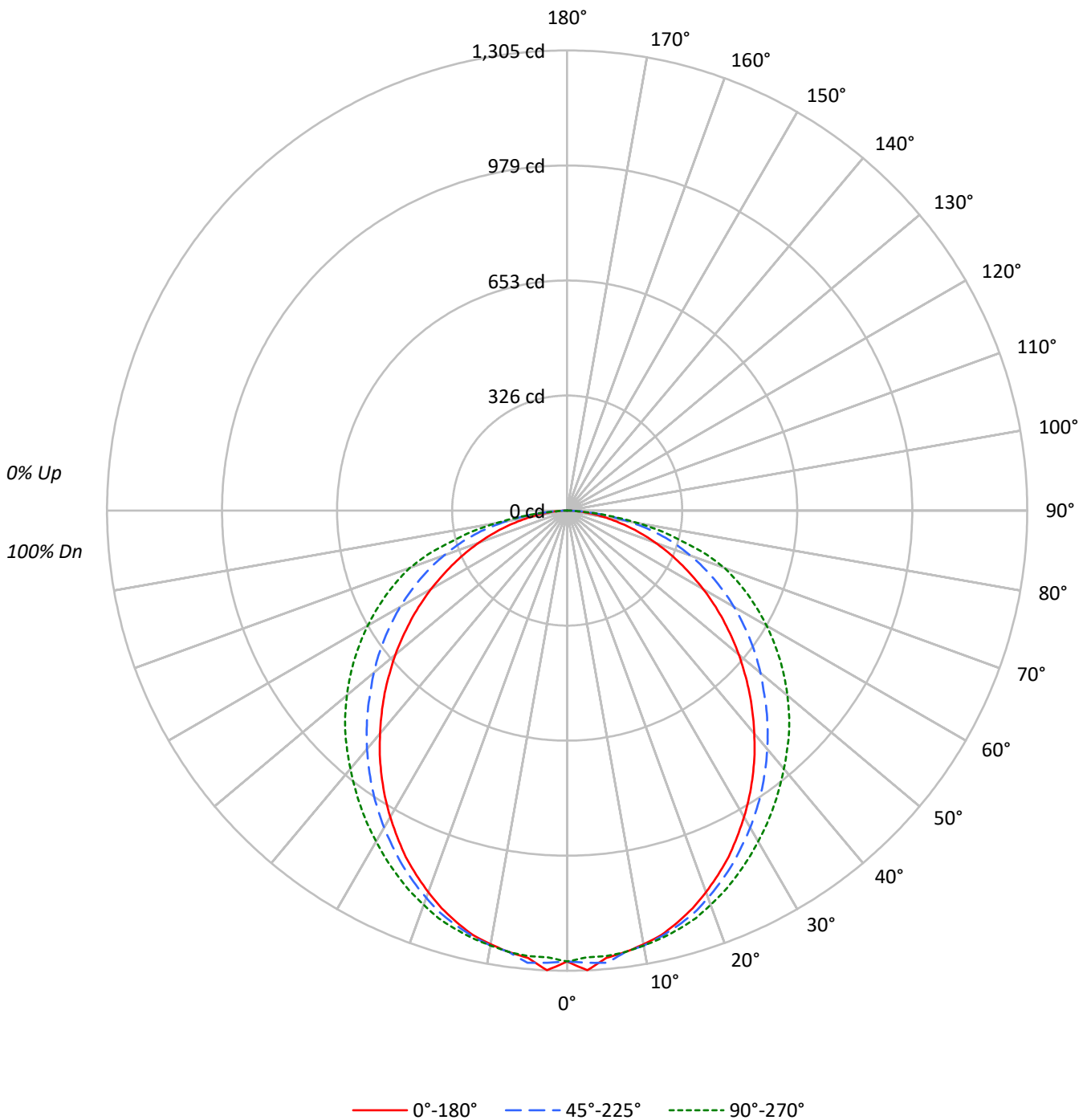
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3440	3440	3440
5°	3440	3477	3425
10°	3413	3422	3422
15°	3368	3392	3421
20°	3297	3347	3407
25°	3217	3289	3388
30°	3118	3226	3366
35°	3016	3165	3359
40°	2900	3102	3359
45°	2784	3043	3387
50°	2662	2997	3413
55°	2533	2966	3457
60°	2400	2943	3515
65°	2252	2928	3605
70°	2097	2919	3728
75°	1902	2915	3532
80°	1647	2700	3132
85°	1399	2044	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.4
10°-20°	343.5	9.6
20°-30°	511.0	14.3
30°-40°	604.3	16.9
40°-50°	621.1	17.3
50°-60°	567.6	15.8
60°-70°	454.0	12.7
70°-80°	284.9	8.0
80°-90°	74.2	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°	975.7	27.2
0°-40°	1580.1	44.1
0°-60°	2768.8	77.3
0°-90°	3582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1273	1273	1287	1278	1268	121
15°	1209	1211	1218	1224	1228	341
25°	1083	1090	1108	1127	1141	498
35°	918	930	963	1000	1022	574
45°	732	751	800	859	890	564
55°	540	566	632	702	737	483
65°	354	385	460	530	566	351
75°	183	218	280	322	340	194
85°	45	58	66	64	64	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.5	1278.5	1278.5	1278.5	1278.5
2.5°	1304.7	1299.4	1283.8	1273.3	1268.1
5°	1273.3	1273.3	1287.2	1278.5	1268.1
7.5°	1262.9	1262.9	1262.9	1289.0	1262.9
10°	1248.9	1250.7	1252.4	1262.9	1252.4
12.5°	1233.2	1233.2	1236.7	1240.2	1242.0
15°	1208.9	1210.6	1217.6	1224.5	1228.0
17.5°	1182.7	1188.0	1196.7	1205.4	1212.3
20°	1151.4	1158.3	1168.8	1182.7	1189.7
22.5°	1118.3	1125.3	1139.2	1154.9	1167.1
25°	1083.4	1090.4	1107.8	1127.0	1140.9
27.5°	1043.4	1052.1	1073.0	1099.1	1113.1
30°	1003.3	1013.8	1038.2	1067.8	1083.4
32.5°	961.5	973.7	1001.6	1034.7	1053.8
35°	918.0	930.2	963.3	999.8	1022.5
37.5°	872.7	886.6	923.2	965.0	989.4
40°	825.6	841.3	883.1	928.4	956.3
42.5°	778.6	796.0	841.3	895.3	923.2
45°	731.6	750.7	799.5	858.7	890.1
47.5°	682.8	705.5	756.0	822.2	853.5
50°	635.8	658.4	715.9	783.8	815.2
52.5°	587.0	613.1	674.1	743.8	776.9
55°	540.0	566.1	632.3	702.0	736.8
57.5°	493.0	519.1	588.8	660.2	695.0
60°	445.9	473.8	546.9	616.6	653.2
62.5°	398.9	428.5	503.4	574.8	609.7
65°	353.6	385.0	459.9	529.5	566.1
67.5°	310.1	343.1	416.3	484.2	520.8
70°	266.5	299.6	371.0	437.2	473.8
72.5°	224.7	257.8	327.5	386.7	414.6
75°	182.9	217.7	280.4	322.2	339.7
77.5°	142.8	177.7	231.7	259.5	278.7
80°	106.3	135.9	174.2	195.1	202.1
82.5°	73.2	97.5	121.9	127.2	130.6
85°	45.3	57.5	66.2	64.4	64.4
87.5°	20.9	22.6	19.2	13.9	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)