

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: P#

Luminaire Tested: **14CZ-LD5-35-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-S-UNV-L840-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3735.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

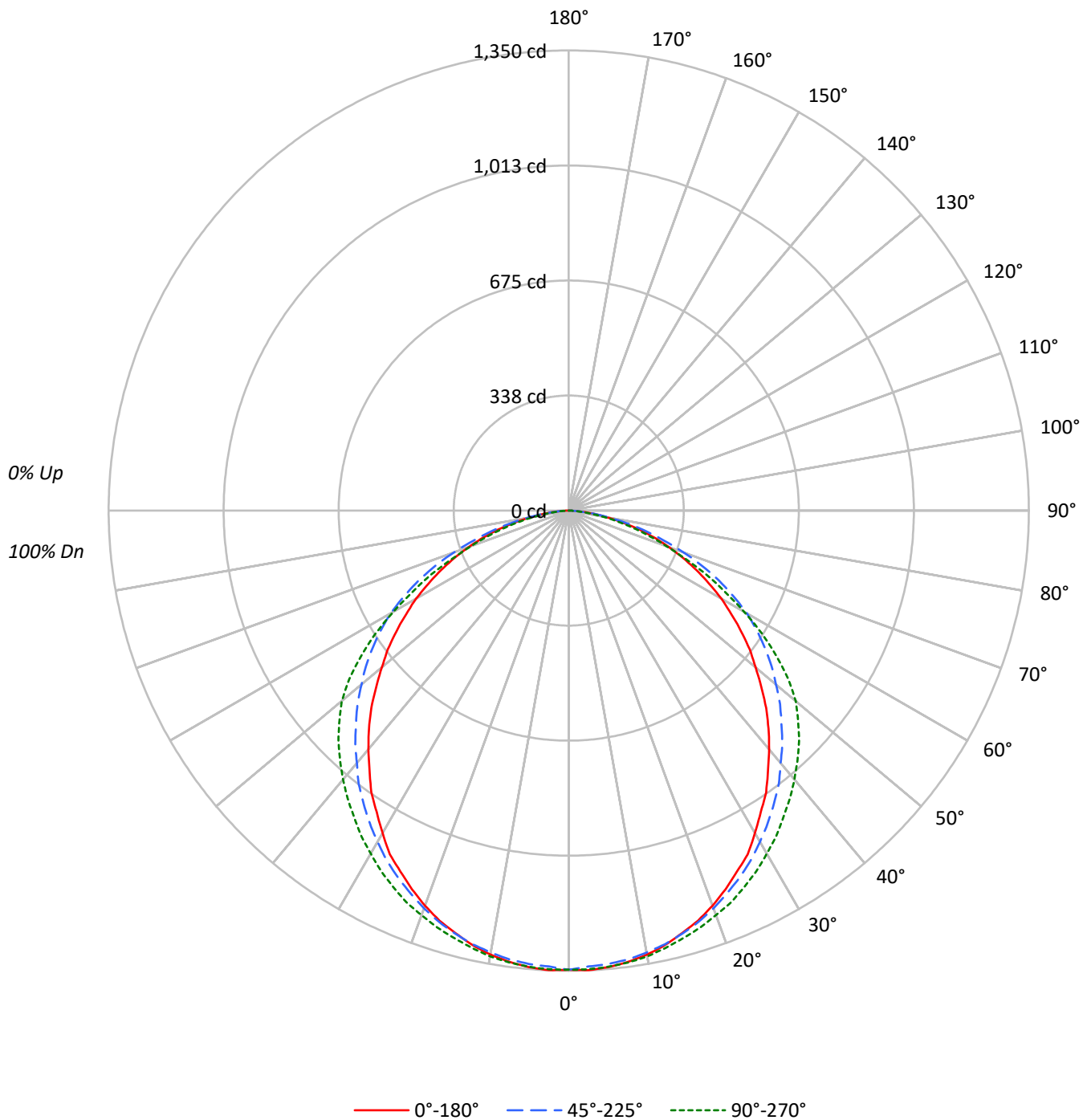
Input Watts (W): 31.48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70		70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59		59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51		51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44		44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34		34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3623	3579	3597
10°	3599	3542	3566
15°	3552	3498	3523
20°	3500	3444	3490
25°	3429	3385	3456
30°	3346	3316	3414
35°	3259	3247	3370
40°	3147	3163	3337
45°	3041	3085	3306
50°	2908	3007	3251
55°	2796	2928	3051
60°	2668	2818	2724
65°	2499	2601	2342
70°	2301	2262	1886
75°	2030	1844	1467
80°	1564	1281	980
85°	987	548	373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.4
10°-20°	364.0	9.7
20°-30°	549.2	14.7
30°-40°	658.5	17.6
40°-50°	683.4	18.3
50°-60°	617.0	16.5
60°-70°	449.3	12.0
70°-80°	235.7	6.3
80°-90°	50.4	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°	1040.7	27.9
0°-40°	1699.2	45.5
0°-60°	2999.6	80.3
0°-90°	3735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1344	1342	1335	1344	1343	128
15°	1284	1284	1285	1300	1299	362
25°	1168	1174	1187	1213	1218	539
35°	1009	1019	1050	1089	1098	629
45°	819	837	882	938	956	631
55°	617	639	703	745	743	552
65°	414	438	486	464	447	409
75°	214	244	236	204	194	224
85°	41	49	36	28	26	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.9	1346.9	1346.9	1346.9	1346.9
2.5°	1349.6	1346.0	1338.8	1347.8	1346.9
5°	1344.2	1341.5	1335.3	1344.2	1343.3
7.5°	1335.3	1333.5	1328.1	1337.9	1337.0
10°	1322.8	1320.1	1316.5	1327.2	1328.1
12.5°	1305.8	1304.9	1303.1	1314.7	1313.8
15°	1283.5	1283.5	1285.2	1299.5	1298.6
17.5°	1261.1	1261.1	1265.6	1281.7	1282.6
20°	1233.4	1235.2	1241.5	1261.1	1262.9
22.5°	1202.2	1204.0	1214.7	1239.7	1244.2
25°	1168.2	1174.5	1187.0	1212.9	1218.3
27.5°	1137.0	1137.9	1156.6	1185.2	1192.4
30°	1092.3	1104.8	1121.8	1154.8	1162.0
32.5°	1048.6	1061.1	1087.0	1122.7	1132.5
35°	1009.3	1019.1	1049.5	1088.8	1097.7
37.5°	960.1	976.2	1011.9	1053.0	1065.5
40°	914.6	928.9	967.3	1013.7	1029.8
42.5°	867.3	883.3	927.1	977.1	993.2
45°	819.0	836.9	882.4	937.8	955.7
47.5°	766.3	788.7	840.5	896.7	912.8
50°	715.4	738.6	794.0	853.0	869.0
52.5°	669.0	689.5	750.2	804.7	811.9
55°	617.2	638.6	702.9	744.9	743.1
57.5°	565.4	589.5	653.8	679.7	672.5
60°	517.1	539.5	603.8	609.1	593.9
62.5°	463.5	489.4	543.9	535.9	517.1
65°	413.5	438.5	485.9	463.5	446.6
67.5°	362.6	389.4	423.4	390.3	370.7
70°	312.6	344.8	357.3	321.5	305.5
72.5°	261.7	295.6	294.7	260.8	247.4
75°	213.5	243.8	235.8	203.6	193.8
77.5°	162.6	192.9	177.7	153.6	144.7
80°	115.2	143.8	124.1	105.4	99.1
82.5°	78.6	95.6	77.7	61.6	58.9
85°	41.1	49.1	35.7	27.7	25.9
87.5°	15.2	14.3	12.5	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)