

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-LD5-39-S-UNV-L830-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-LD5-39-S-UNV-L830-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.3 lumens
Efficiency: N/A
Efficacy: 106.6 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

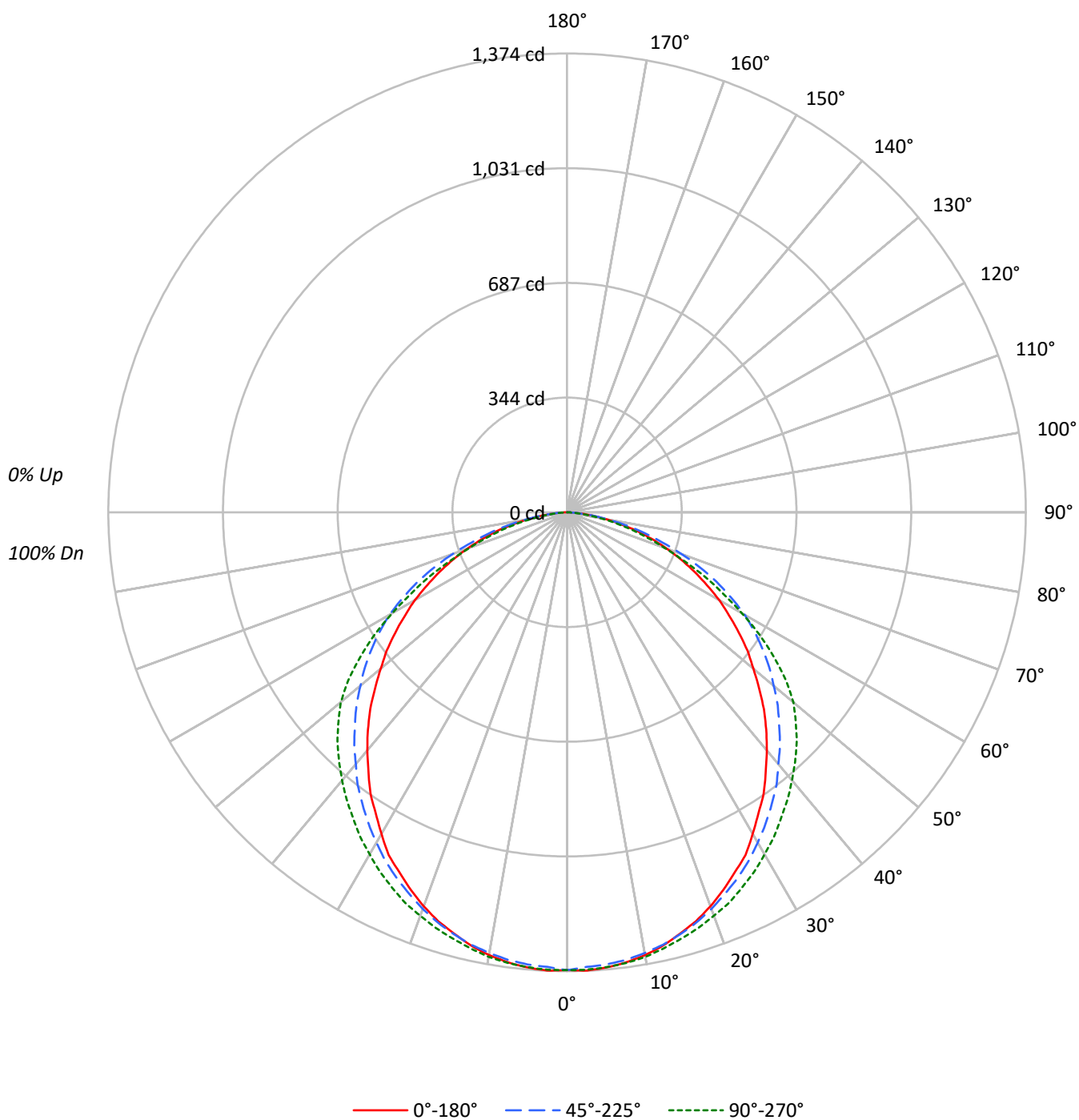
Input Watts (W): 35.67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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		
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°	3689	3689	3689
5°	3687	3643	3661
10°	3662	3605	3630
15°	3615	3560	3586
20°	3562	3505	3552
25°	3489	3445	3517
30°	3405	3375	3474
35°	3316	3304	3430
40°	3203	3220	3396
45°	3095	3140	3365
50°	2960	3061	3308
55°	2845	2980	3105
60°	2715	2868	2773
65°	2543	2647	2383
70°	2343	2302	1918
75°	2066	1876	1493
80°	1591	1305	998
85°	1004	559	379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	3.4
10°-20°	370.5	9.7
20°-30°	559.0	14.7
30°-40°	670.2	17.6
40°-50°	695.5	18.3
50°-60°	627.9	16.5
60°-70°	457.3	12.0
70°-80°	239.9	6.3
80°-90°	51.3	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°	1059.1	27.9
0°-40°	1729.4	45.5
0°-60°	3052.8	80.3
0°-90°	3801.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1368	1365	1359	1368	1367	130
15°	1306	1306	1308	1323	1322	369
25°	1189	1195	1208	1234	1240	548
35°	1027	1037	1068	1108	1117	641
45°	834	852	898	954	973	642
55°	628	650	715	758	756	562
65°	421	446	494	472	454	417
75°	217	248	240	207	197	228
85°	42	50	36	28	26	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.8	1370.8	1370.8	1370.8	1370.8
2.5°	1373.5	1369.9	1362.6	1371.7	1370.8
5°	1368.0	1365.3	1359.0	1368.0	1367.1
7.5°	1359.0	1357.2	1351.7	1361.6	1360.8
10°	1346.2	1343.5	1339.9	1350.8	1351.7
12.5°	1329.0	1328.0	1326.2	1338.1	1337.1
15°	1306.2	1306.2	1308.1	1322.6	1321.6
17.5°	1283.5	1283.5	1288.0	1304.4	1305.3
20°	1255.3	1257.1	1263.5	1283.5	1285.4
22.5°	1223.5	1225.3	1236.2	1261.7	1266.3
25°	1188.9	1195.3	1208.0	1234.4	1239.8
27.5°	1157.2	1158.0	1177.1	1206.2	1213.5
30°	1111.7	1124.4	1141.7	1175.3	1182.6
32.5°	1067.1	1079.9	1106.3	1142.6	1152.6
35°	1027.1	1037.2	1068.1	1108.1	1117.2
37.5°	977.2	993.5	1029.9	1071.7	1084.4
40°	930.8	945.3	984.5	1031.7	1048.0
42.5°	882.6	899.0	943.5	994.5	1010.8
45°	833.5	851.8	898.1	954.5	972.6
47.5°	779.9	802.7	855.4	912.7	929.0
50°	728.1	751.7	808.1	868.1	884.4
52.5°	680.9	701.8	763.5	819.0	826.3
55°	628.1	649.9	715.4	758.1	756.3
57.5°	575.4	599.9	665.4	691.8	684.5
60°	526.3	549.0	614.5	620.0	604.5
62.5°	471.8	498.1	553.6	545.4	526.3
65°	420.8	446.3	494.5	471.8	454.5
67.5°	369.1	396.3	430.8	397.2	377.2
70°	318.2	350.8	363.6	327.3	310.8
72.5°	266.4	300.9	300.0	265.4	251.8
75°	217.3	248.1	240.0	207.3	197.2
77.5°	165.4	196.4	180.9	156.4	147.2
80°	117.2	146.4	126.4	107.3	100.9
82.5°	80.0	97.3	79.0	62.7	60.0
85°	41.8	50.0	36.4	28.2	26.3
87.5°	15.5	14.5	12.7	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)