

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: **22CZ-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 (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-S-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3775.4 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

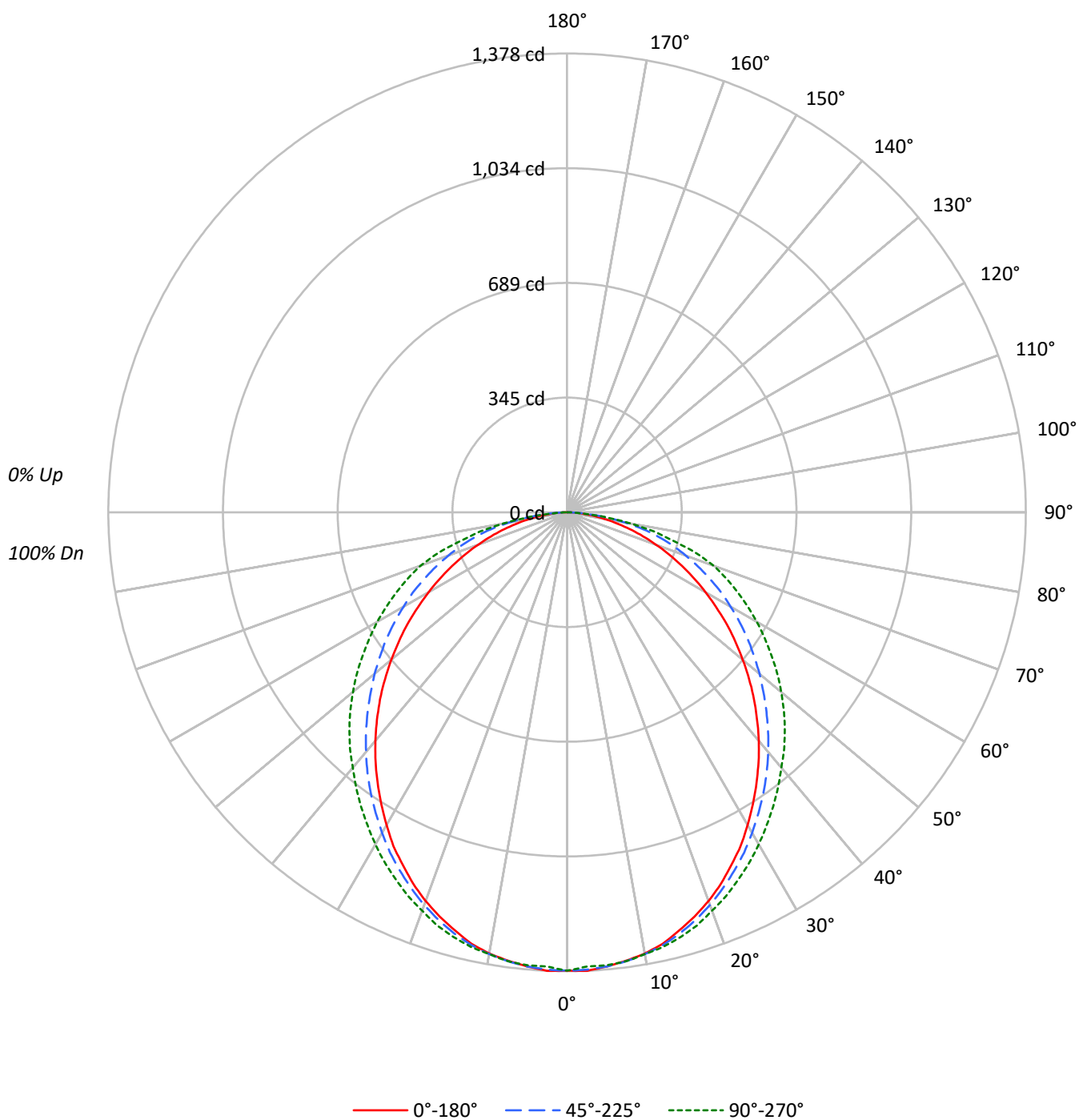
Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3704	3704	3704
5°	3682	3675	3672
10°	3644	3636	3649
15°	3574	3580	3629
20°	3493	3503	3580
25°	3388	3414	3531
30°	3275	3319	3478
35°	3148	3218	3424
40°	3020	3115	3375
45°	2879	3010	3352
50°	2722	2913	3317
55°	2565	2821	3279
60°	2380	2721	3261
65°	2190	2617	3243
70°	1969	2497	3237
75°	1700	2342	2876
80°	1380	1966	2320
85°	925	1146	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.4
10°-20°	369.2	9.8
20°-30°	548.4	14.5
30°-40°	645.5	17.1
40°-50°	658.1	17.4
50°-60°	593.5	15.7
60°-70°	467.5	12.4
70°-80°	288.4	7.6
80°-90°	74.9	2.0
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°	1047.6	27.7
0°-40°	1693.1	44.8
0°-60°	2944.7	78.0
0°-90°	3775.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3775.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1369	1371	1369	1367	1365	130
15°	1300	1306	1309	1316	1320	367
25°	1168	1175	1188	1208	1217	538
35°	992	1003	1028	1061	1079	621
45°	794	807	847	898	925	612
55°	586	606	662	722	749	523
65°	381	408	473	533	564	377
75°	194	227	285	317	328	207
85°	47	60	67	64	60	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1376.4	1376.4	1376.4	1376.4	1376.4
2.5°	1378.2	1378.2	1374.6	1370.9	1365.4
5°	1369.0	1370.9	1369.0	1367.2	1365.4
7.5°	1358.2	1360.0	1360.0	1360.0	1360.0
10°	1345.5	1347.3	1347.3	1347.3	1347.3
12.5°	1327.3	1329.2	1331.0	1332.8	1336.5
15°	1300.2	1305.6	1309.3	1316.5	1320.1
17.5°	1273.0	1278.4	1283.8	1293.0	1300.2
20°	1242.1	1245.7	1254.9	1265.7	1273.0
22.5°	1207.7	1213.1	1222.2	1236.7	1247.6
25°	1167.8	1175.1	1187.8	1207.7	1216.8
27.5°	1129.7	1135.2	1151.5	1173.2	1186.0
30°	1084.4	1091.6	1111.6	1138.8	1151.5
32.5°	1039.0	1048.1	1069.9	1100.7	1115.2
35°	991.9	1002.8	1028.2	1060.9	1078.9
37.5°	944.8	955.6	984.7	1021.0	1040.9
40°	895.8	906.7	939.4	979.3	1001.0
42.5°	845.0	857.8	894.0	939.4	964.7
45°	794.3	806.9	846.8	897.7	924.8
47.5°	741.7	756.2	799.7	856.0	883.1
50°	689.0	705.4	754.4	812.3	839.6
52.5°	636.5	654.6	707.2	767.0	796.1
55°	585.7	605.6	661.9	721.7	748.9
57.5°	531.3	554.9	614.7	672.8	703.6
60°	480.5	506.0	567.6	625.6	658.3
62.5°	429.8	457.0	522.2	580.3	611.1
65°	380.8	408.0	473.3	533.1	563.9
67.5°	331.8	362.7	426.2	486.0	516.8
70°	284.7	317.3	379.0	437.0	467.9
72.5°	239.4	272.0	333.6	388.1	406.2
75°	194.0	226.7	284.7	317.3	328.2
77.5°	152.3	183.2	233.9	253.8	268.4
80°	114.3	141.5	177.7	190.4	192.2
82.5°	78.0	101.6	123.3	125.1	123.3
85°	47.1	59.8	67.1	63.5	59.8
87.5°	21.8	23.6	21.8	14.5	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)