

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-LD5-39SE-UNV-L835-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 (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39SE-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3960.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

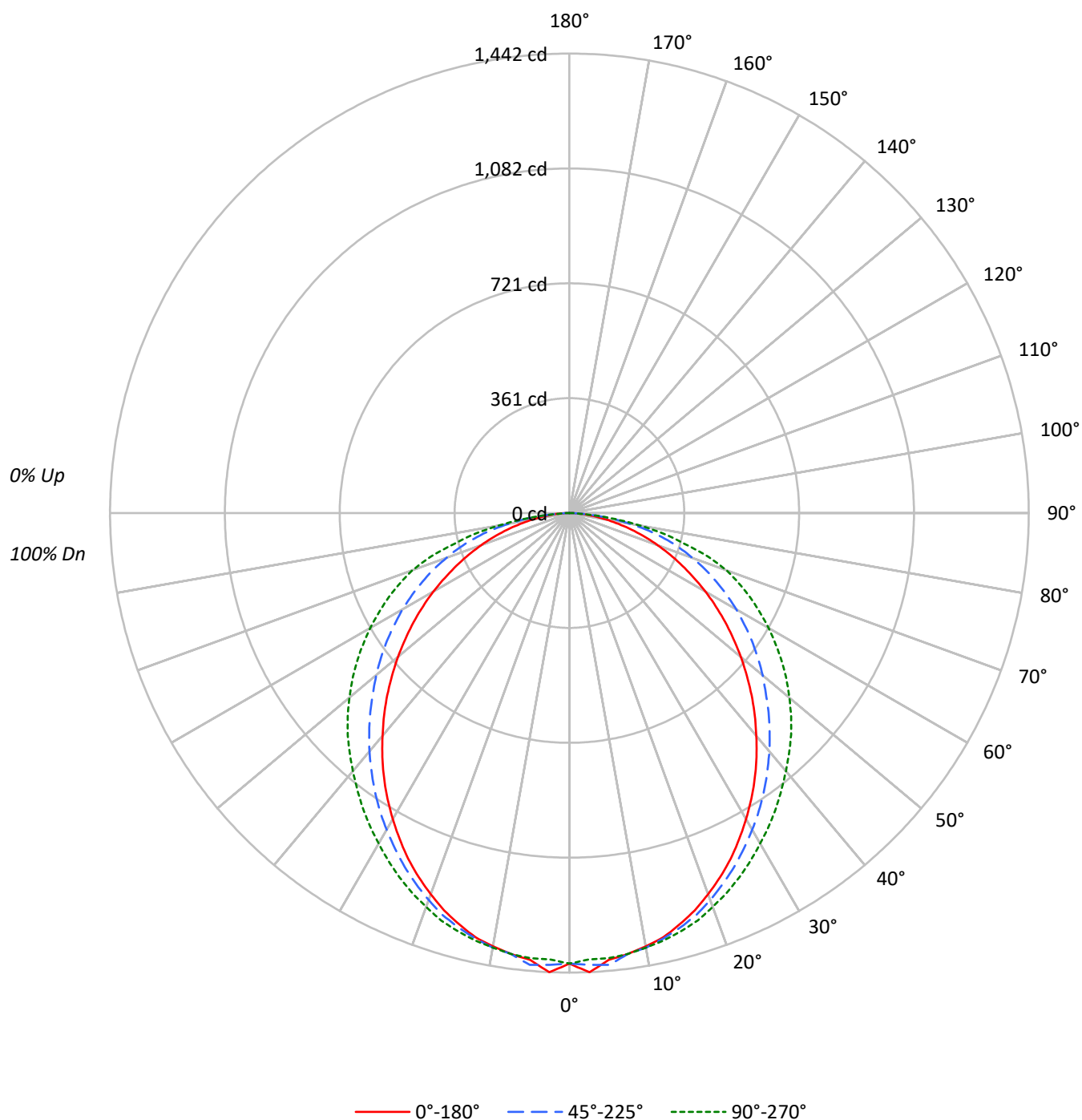
Input Watts (W): 34.88
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3804	3804	3804
5°	3786	3821	3770
10°	3740	3737	3750
15°	3674	3680	3732
20°	3580	3607	3699
25°	3475	3520	3660
30°	3350	3426	3617
35°	3221	3333	3588
40°	3077	3237	3564
45°	2931	3142	3566
50°	2777	3056	3561
55°	2614	2979	3567
60°	2442	2899	3577
65°	2248	2811	3599
70°	2038	2702	3623
75°	1772	2550	3290
80°	1419	2130	2697
85°	984	1250	1401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.4
10°-20°	379.7	9.6
20°-30°	564.9	14.3
30°-40°	668.1	16.9
40°-50°	686.7	17.3
50°-60°	627.5	15.8
60°-70°	502.0	12.7
70°-80°	315.0	8.0
80°-90°	82.0	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°	1078.7	27.2
0°-40°	1746.8	44.1
0°-60°	3061.0	77.3
0°-90°	3960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1408	1408	1423	1414	1402	134
15°	1336	1338	1346	1354	1358	376
25°	1198	1206	1225	1246	1261	551
35°	1015	1028	1065	1105	1130	634
45°	809	830	884	949	984	624
55°	597	626	699	776	815	534
65°	391	426	508	585	626	388
75°	202	241	310	356	376	215
85°	50	64	73	71	71	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413.5	1413.5	1413.5	1413.5	1413.5
2.5°	1442.3	1436.6	1419.2	1407.7	1401.9
5°	1407.7	1407.7	1423.1	1413.5	1401.9
7.5°	1396.1	1396.1	1396.1	1425.0	1396.1
10°	1380.7	1382.6	1384.6	1396.1	1384.6
12.5°	1363.4	1363.4	1367.2	1371.1	1373.0
15°	1336.4	1338.4	1346.1	1353.8	1357.6
17.5°	1307.5	1313.3	1322.9	1332.6	1340.3
20°	1272.9	1280.6	1292.1	1307.5	1315.2
22.5°	1236.3	1244.0	1259.4	1276.7	1290.2
25°	1197.8	1205.5	1224.7	1245.9	1261.3
27.5°	1153.5	1163.1	1186.2	1215.1	1230.5
30°	1109.2	1120.8	1147.7	1180.4	1197.8
32.5°	1063.0	1076.5	1107.3	1143.9	1165.0
35°	1014.8	1028.3	1064.9	1105.3	1130.4
37.5°	964.8	980.2	1020.6	1066.8	1093.8
40°	912.8	930.1	976.3	1026.4	1057.2
42.5°	860.8	880.0	930.1	989.8	1020.6
45°	808.8	830.0	883.9	949.4	984.0
47.5°	754.9	779.9	835.8	908.9	943.6
50°	702.9	727.9	791.5	866.6	901.2
52.5°	649.0	677.8	745.2	822.3	858.9
55°	597.0	625.8	699.0	776.1	814.6
57.5°	545.0	573.9	650.9	729.8	768.4
60°	493.0	523.8	604.7	681.7	722.1
62.5°	441.0	473.7	556.5	635.5	674.0
65°	390.9	425.6	508.4	585.4	625.8
67.5°	342.8	379.4	460.2	535.3	575.8
70°	294.6	331.2	410.2	483.3	523.8
72.5°	248.4	285.0	362.0	427.5	458.3
75°	202.2	240.7	310.0	356.3	375.5
77.5°	157.9	196.4	256.1	286.9	308.1
80°	117.5	150.2	192.6	215.7	223.4
82.5°	80.9	107.8	134.8	140.6	144.4
85°	50.1	63.5	73.2	71.3	71.3
87.5°	23.1	25.0	21.2	15.4	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)