

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-LD5-44SE-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 (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44SE-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.3 lumens
Efficiency: N/A
Efficacy: 103.0 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

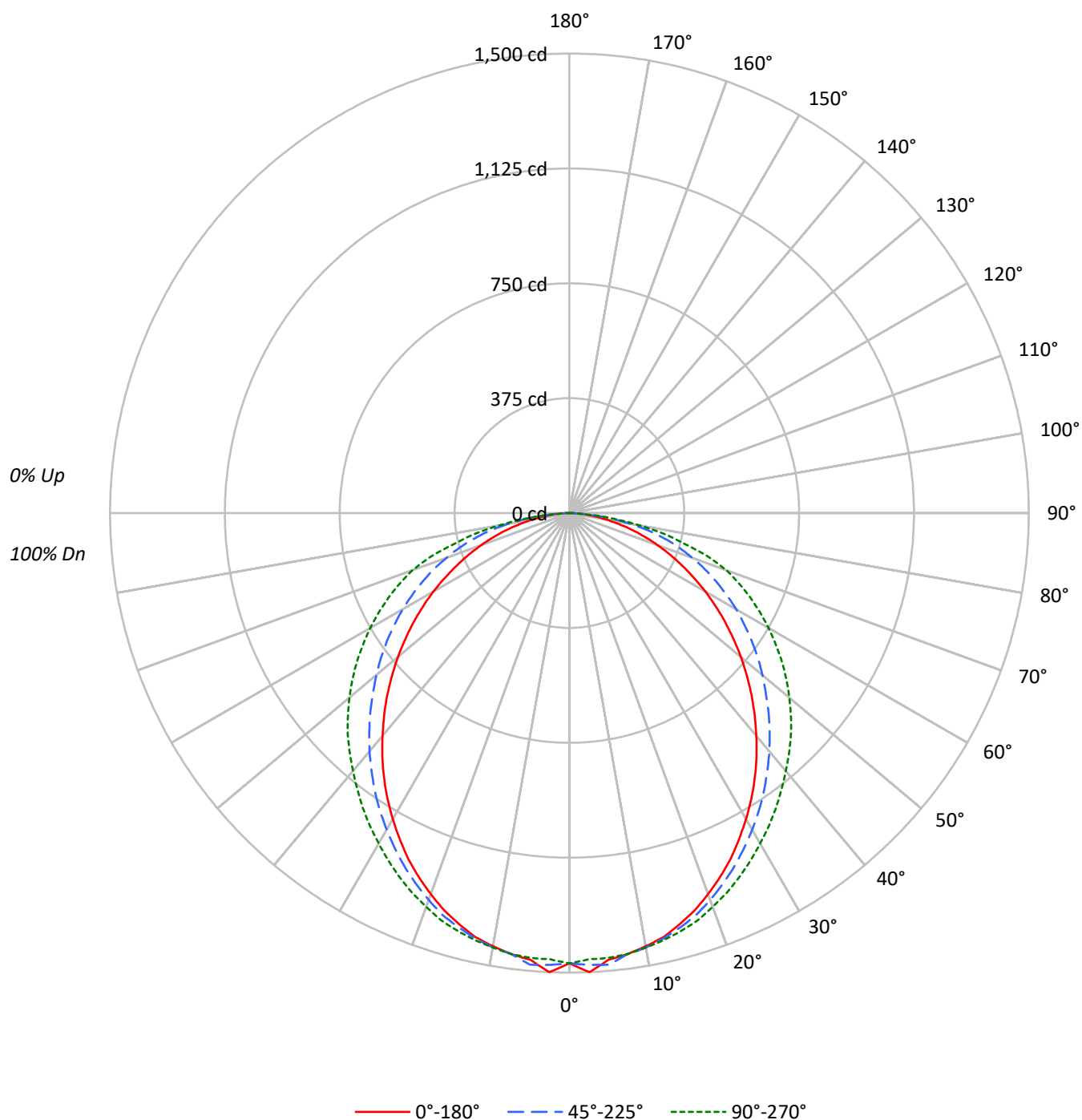
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3955	3955	3955
5°	3937	3973	3921
10°	3889	3886	3900
15°	3821	3827	3881
20°	3723	3752	3847
25°	3614	3661	3806
30°	3484	3563	3762
35°	3350	3467	3731
40°	3200	3367	3706
45°	3048	3267	3709
50°	2888	3178	3703
55°	2718	3098	3709
60°	2539	3015	3720
65°	2338	2923	3743
70°	2120	2810	3768
75°	1843	2652	3422
80°	1475	2216	2805
85°	1024	1299	1456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	3.4
10°-20°	394.9	9.6
20°-30°	587.5	14.3
30°-40°	694.8	16.9
40°-50°	714.2	17.3
50°-60°	652.6	15.8
60°-70°	522.0	12.7
70°-80°	327.6	8.0
80°-90°	85.3	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°	1121.8	27.2
0°-40°	1816.6	44.1
0°-60°	3183.4	77.3
0°-90°	4118.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1464	1464	1480	1470	1458	139
15°	1390	1392	1400	1408	1412	391
25°	1246	1254	1274	1296	1312	573
35°	1055	1069	1108	1150	1176	660
45°	841	863	919	987	1023	649
55°	621	651	727	807	847	555
65°	406	443	529	609	651	403
75°	210	250	322	370	390	223
85°	52	66	76	74	74	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1500.0	1494.0	1476.0	1463.9	1458.0
5°	1463.9	1463.9	1480.0	1469.9	1458.0
7.5°	1452.0	1452.0	1452.0	1482.0	1452.0
10°	1435.9	1437.9	1439.9	1452.0	1439.9
12.5°	1417.9	1417.9	1422.0	1426.0	1427.9
15°	1389.8	1391.8	1399.9	1407.9	1411.9
17.5°	1359.8	1365.8	1375.9	1385.9	1393.8
20°	1323.8	1331.8	1343.8	1359.8	1367.8
22.5°	1285.7	1293.7	1309.8	1327.8	1341.8
25°	1245.6	1253.7	1273.8	1295.7	1311.8
27.5°	1199.7	1209.6	1233.7	1263.7	1279.7
30°	1153.6	1165.6	1193.6	1227.7	1245.6
32.5°	1105.5	1119.5	1151.6	1189.6	1211.6
35°	1055.4	1069.4	1107.5	1149.5	1175.6
37.5°	1003.4	1019.4	1061.4	1109.5	1137.5
40°	949.2	967.3	1015.4	1067.4	1099.4
42.5°	895.2	915.2	967.3	1029.4	1061.4
45°	841.1	863.2	919.2	987.3	1023.3
47.5°	785.1	811.1	869.2	945.2	981.4
50°	731.0	757.1	823.1	901.2	937.3
52.5°	674.9	705.0	775.0	855.2	893.2
55°	620.8	650.8	726.9	807.1	847.1
57.5°	566.8	596.8	676.9	759.0	799.0
60°	512.7	544.7	628.8	709.0	751.0
62.5°	458.7	492.7	578.7	660.9	700.9
65°	406.5	442.6	528.7	608.9	650.8
67.5°	356.4	394.5	478.6	556.8	598.8
70°	306.4	344.5	426.6	502.6	544.7
72.5°	258.3	296.4	376.5	444.6	476.6
75°	210.3	250.3	322.4	370.5	390.5
77.5°	164.3	204.2	266.4	298.4	320.4
80°	122.2	156.2	200.3	224.3	232.3
82.5°	84.1	112.2	140.2	146.2	150.2
85°	52.1	66.1	76.1	74.1	74.1
87.5°	24.0	26.0	22.0	16.1	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)