

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-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-LD5-44SE-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4375.0 lumens
Efficiency: N/A
Efficacy: 109.4 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

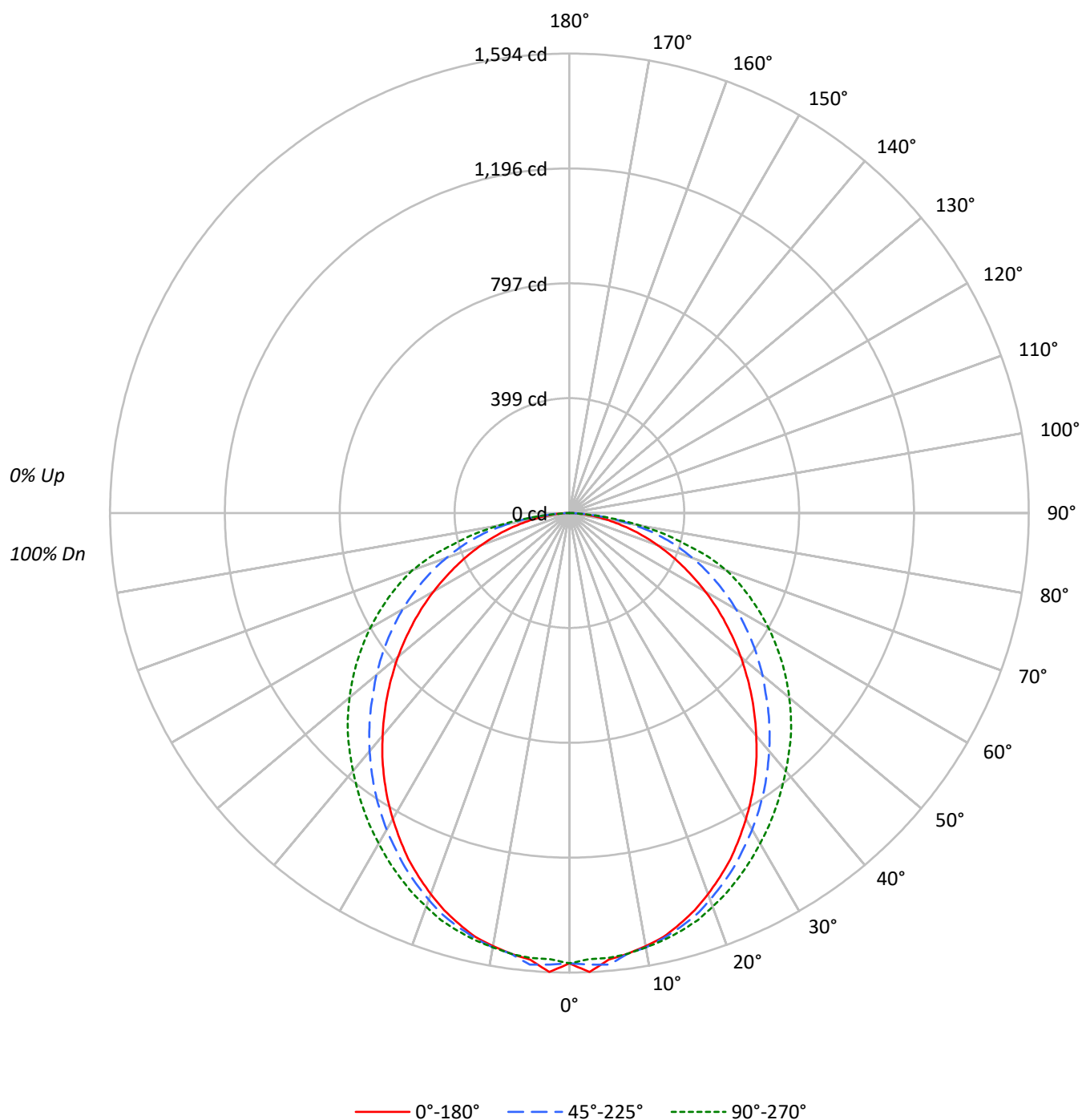
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4202	4202	4202
5°	4183	4221	4165
10°	4132	4128	4143
15°	4059	4066	4123
20°	3955	3986	4087
25°	3840	3889	4043
30°	3701	3785	3996
35°	3559	3683	3964
40°	3400	3577	3938
45°	3238	3471	3940
50°	3068	3376	3934
55°	2888	3291	3941
60°	2697	3203	3952
65°	2484	3106	3976
70°	2252	2986	4003
75°	1957	2817	3635
80°	1567	2353	2980
85°	1086	1380	1546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	3.4
10°-20°	419.5	9.6
20°-30°	624.1	14.3
30°-40°	738.1	16.9
40°-50°	758.7	17.3
50°-60°	693.2	15.8
60°-70°	554.6	12.7
70°-80°	348.0	8.0
80°-90°	90.6	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°	1191.7	27.2
0°-40°	1929.9	44.1
0°-60°	3381.8	77.3
0°-90°	4375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1555	1555	1572	1562	1549	148
15°	1476	1479	1487	1496	1500	416
25°	1323	1332	1353	1376	1394	608
35°	1121	1136	1176	1221	1249	701
45°	894	917	976	1049	1087	689
55°	660	691	772	857	900	590
65°	432	470	562	647	691	429
75°	223	266	342	394	415	237
85°	55	70	81	79	79	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1561.6	1561.6	1561.6	1561.6	1561.6
2.5°	1593.5	1587.1	1568.0	1555.2	1548.8
5°	1555.2	1555.2	1572.2	1561.6	1548.8
7.5°	1542.4	1542.4	1542.4	1574.3	1542.4
10°	1525.4	1527.5	1529.7	1542.4	1529.7
12.5°	1506.3	1506.3	1510.5	1514.8	1516.9
15°	1476.5	1478.6	1487.1	1495.6	1499.9
17.5°	1444.6	1451.0	1461.6	1472.2	1480.7
20°	1406.3	1414.8	1427.6	1444.6	1453.1
22.5°	1365.9	1374.4	1391.4	1410.5	1425.4
25°	1323.3	1331.8	1353.1	1376.5	1393.5
27.5°	1274.4	1285.0	1310.5	1342.5	1359.5
30°	1225.4	1238.2	1268.0	1304.2	1323.3
32.5°	1174.4	1189.3	1223.3	1263.7	1287.1
35°	1121.2	1136.1	1176.5	1221.2	1248.8
37.5°	1065.9	1082.9	1127.6	1178.6	1208.4
40°	1008.4	1027.6	1078.6	1134.0	1168.0
42.5°	951.0	972.3	1027.6	1093.5	1127.6
45°	893.5	917.0	976.5	1048.9	1087.2
47.5°	834.0	861.6	923.3	1004.2	1042.5
50°	776.5	804.2	874.4	957.4	995.7
52.5°	717.0	748.9	823.3	908.4	948.9
55°	659.5	691.4	772.3	857.4	899.9
57.5°	602.1	634.0	719.1	806.3	848.9
60°	544.6	578.7	668.0	753.1	797.8
62.5°	487.2	523.4	614.8	702.1	744.6
65°	431.9	470.2	561.7	646.8	691.4
67.5°	378.7	419.1	508.5	591.4	636.1
70°	325.5	365.9	453.2	534.0	578.7
72.5°	274.4	314.9	400.0	472.3	506.3
75°	223.4	265.9	342.5	393.6	414.9
77.5°	174.5	217.0	283.0	317.0	340.4
80°	129.8	165.9	212.7	238.3	246.8
82.5°	89.4	119.1	148.9	155.3	159.6
85°	55.3	70.2	80.8	78.7	78.7
87.5°	25.5	27.7	23.4	17.0	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)