

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-L840-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-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4462.5 lumens
Efficiency: N/A
Efficacy: 111.6 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

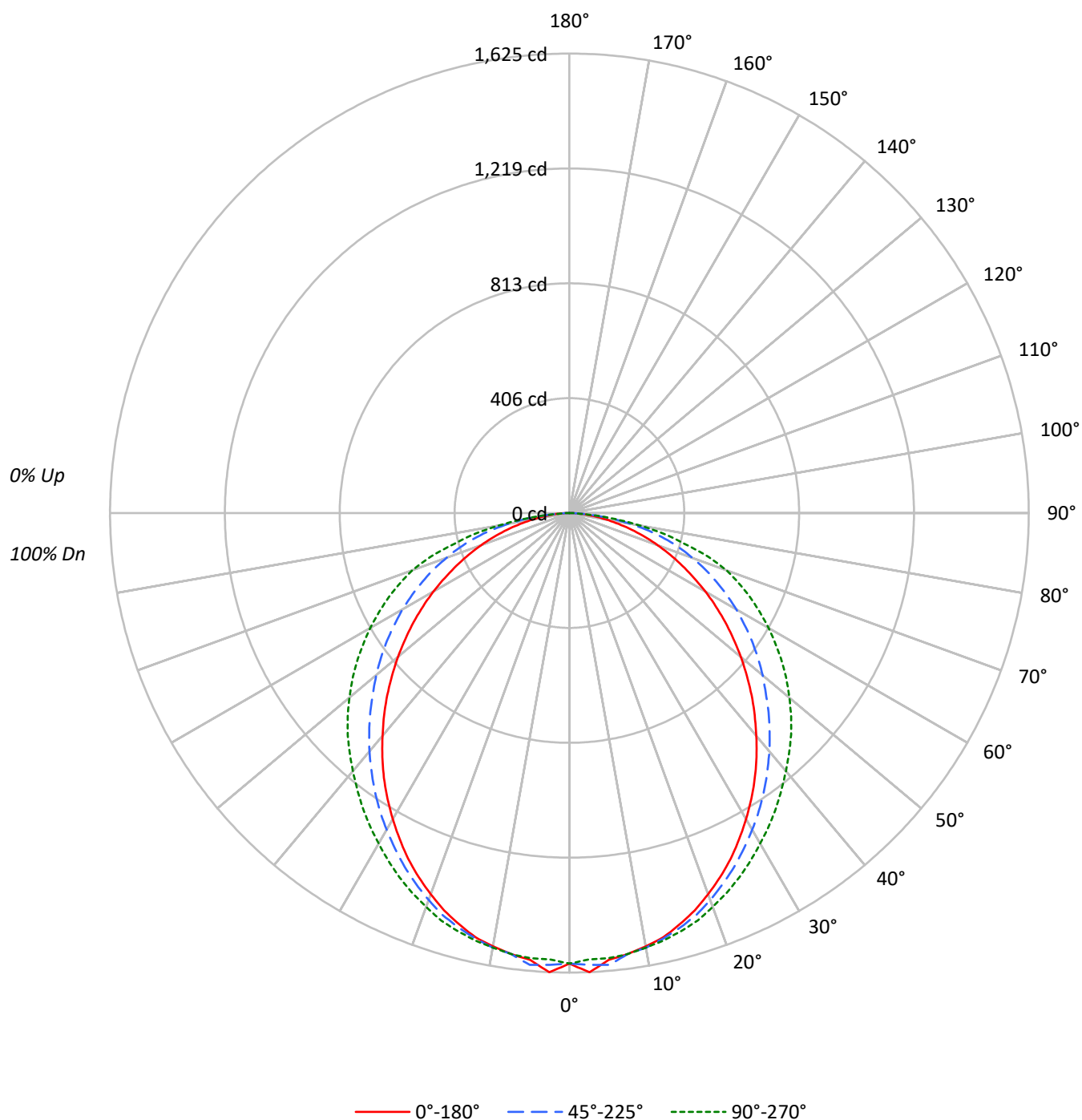
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58		58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43		43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33		33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4286	4286	4286
5°	4266	4305	4249
10°	4214	4211	4226
15°	4140	4147	4206
20°	4034	4065	4168
25°	3916	3967	4124
30°	3775	3861	4077
35°	3630	3756	4043
40°	3468	3648	4017
45°	3303	3540	4019
50°	3130	3444	4013
55°	2946	3357	4019
60°	2751	3267	4031
65°	2533	3168	4056
70°	2297	3045	4083
75°	1997	2874	3708
80°	1598	2400	3039
85°	1108	1409	1578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.4
10°-20°	427.9	9.6
20°-30°	636.6	14.3
30°-40°	752.9	16.9
40°-50°	773.8	17.3
50°-60°	707.1	15.8
60°-70°	565.7	12.7
70°-80°	355.0	8.0
80°-90°	92.5	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°	1215.6	27.2
0°-40°	1968.5	44.1
0°-60°	3449.4	77.3
0°-90°	4462.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4462.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1586	1586	1604	1593	1580	151
15°	1506	1508	1517	1526	1530	424
25°	1350	1358	1380	1404	1421	621
35°	1144	1159	1200	1246	1274	715
45°	911	935	996	1070	1109	703
55°	673	705	788	874	918	602
65°	440	480	573	660	705	437
75°	228	271	349	402	423	242
85°	56	72	82	80	80	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.8	1592.8	1592.8	1592.8	1592.8
2.5°	1625.4	1618.9	1599.3	1586.3	1579.8
5°	1586.3	1586.3	1603.7	1592.8	1579.8
7.5°	1573.3	1573.3	1573.3	1605.8	1573.3
10°	1555.9	1558.1	1560.3	1573.3	1560.3
12.5°	1536.4	1536.4	1540.7	1545.1	1547.2
15°	1506.0	1508.2	1516.9	1525.5	1529.9
17.5°	1473.5	1480.0	1490.8	1501.7	1510.4
20°	1434.4	1443.1	1456.1	1473.5	1482.1
22.5°	1393.2	1401.9	1419.2	1438.7	1453.9
25°	1349.8	1358.5	1380.2	1404.0	1421.4
27.5°	1299.9	1310.7	1336.8	1369.3	1386.7
30°	1249.9	1263.0	1293.3	1330.2	1349.8
32.5°	1197.9	1213.1	1247.8	1289.0	1312.9
35°	1143.6	1158.8	1200.0	1245.6	1273.8
37.5°	1087.2	1104.6	1150.1	1202.2	1232.6
40°	1028.6	1048.1	1100.2	1156.6	1191.4
42.5°	970.0	991.7	1048.1	1115.4	1150.1
45°	911.4	935.3	996.1	1069.8	1108.9
47.5°	850.7	878.9	941.8	1024.3	1063.3
50°	792.1	820.3	891.9	976.5	1015.6
52.5°	731.3	763.9	839.8	926.6	967.8
55°	672.7	705.3	787.7	874.5	917.9
57.5°	614.1	646.7	733.5	822.4	865.8
60°	555.5	590.3	681.4	768.2	813.8
62.5°	496.9	533.8	627.1	716.1	759.5
65°	440.5	479.6	572.9	659.7	705.3
67.5°	386.3	427.5	518.6	603.3	648.8
70°	332.0	373.2	462.2	544.7	590.3
72.5°	279.9	321.2	408.0	481.8	516.5
75°	227.9	271.3	349.4	401.5	423.2
77.5°	177.9	221.3	288.6	323.3	347.2
80°	132.4	169.3	217.0	243.0	251.7
82.5°	91.1	121.5	151.9	158.4	162.8
85°	56.4	71.6	82.5	80.3	80.3
87.5°	26.0	28.2	23.9	17.4	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)