

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-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 (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-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4010.7 lumens
Efficiency: N/A
Efficacy: 110.2 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

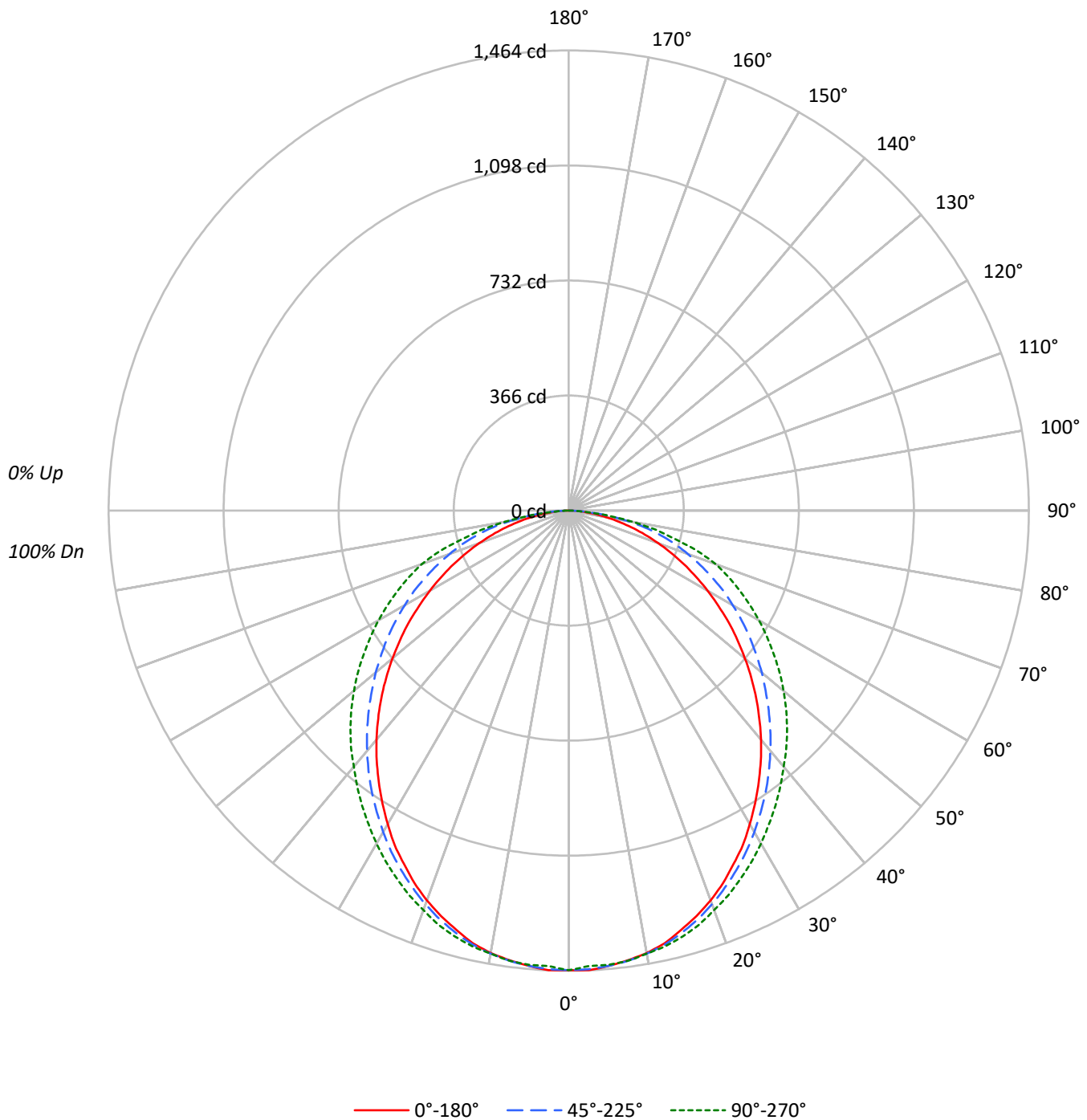
Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3934	3934	3934
5°	3912	3905	3901
10°	3872	3863	3877
15°	3797	3803	3855
20°	3711	3722	3803
25°	3600	3627	3751
30°	3479	3525	3694
35°	3344	3419	3638
40°	3208	3309	3585
45°	3058	3197	3561
50°	2892	3094	3524
55°	2725	2996	3484
60°	2529	2891	3464
65°	2326	2780	3445
70°	2092	2652	3438
75°	1806	2488	3055
80°	1466	2088	2465
85°	984	1217	1250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	3.4
10°-20°	392.2	9.8
20°-30°	582.6	14.5
30°-40°	685.7	17.1
40°-50°	699.1	17.4
50°-60°	630.5	15.7
60°-70°	496.6	12.4
70°-80°	306.3	7.6
80°-90°	79.5	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°	1112.9	27.7
0°-40°	1798.6	44.8
0°-60°	3128.2	78.0
0°-90°	4010.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1454	1456	1454	1452	1451	138
15°	1381	1387	1391	1398	1402	389
25°	1241	1248	1262	1283	1293	572
35°	1054	1065	1092	1127	1146	659
45°	844	857	900	954	982	650
55°	622	643	703	767	796	555
65°	404	433	503	566	599	401
75°	206	241	302	337	349	220
85°	50	64	71	67	64	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.1	1462.1	1462.1	1462.1	1462.1
2.5°	1464.0	1464.0	1460.2	1456.3	1450.6
5°	1454.4	1456.3	1454.4	1452.5	1450.6
7.5°	1442.9	1444.8	1444.8	1444.8	1444.8
10°	1429.4	1431.3	1431.3	1431.3	1431.3
12.5°	1410.1	1412.0	1414.0	1415.9	1419.7
15°	1381.2	1387.0	1390.8	1398.5	1402.4
17.5°	1352.3	1358.1	1363.9	1373.5	1381.2
20°	1319.6	1323.4	1333.0	1344.6	1352.3
22.5°	1283.0	1288.7	1298.4	1313.8	1325.3
25°	1240.6	1248.3	1261.8	1283.0	1292.6
27.5°	1200.1	1205.9	1223.2	1246.4	1259.8
30°	1152.0	1159.7	1180.9	1209.8	1223.2
32.5°	1103.8	1113.4	1136.6	1169.3	1184.7
35°	1053.7	1065.3	1092.3	1126.9	1146.2
37.5°	1003.6	1015.2	1046.0	1084.5	1105.7
40°	951.6	963.2	997.9	1040.2	1063.4
42.5°	897.7	911.2	949.7	997.9	1024.8
45°	843.8	857.2	899.6	953.6	982.4
47.5°	787.9	803.3	849.5	909.2	938.1
50°	732.0	749.4	801.4	863.0	891.9
52.5°	676.2	695.4	751.3	814.9	845.7
55°	622.2	643.4	703.1	766.7	795.6
57.5°	564.4	589.5	653.0	714.7	747.4
60°	510.5	537.5	603.0	664.6	699.3
62.5°	456.5	485.4	554.8	616.4	649.2
65°	404.5	433.4	502.8	566.4	599.1
67.5°	352.5	385.3	452.7	516.3	549.0
70°	302.4	337.1	402.6	464.3	497.0
72.5°	254.3	289.0	354.5	412.2	431.5
75°	206.1	240.8	302.4	337.1	348.7
77.5°	161.8	194.6	248.5	269.7	285.1
80°	121.4	150.3	188.8	202.3	204.2
82.5°	82.8	107.9	131.0	132.9	131.0
85°	50.1	63.6	71.3	67.4	63.6
87.5°	23.1	25.0	23.1	15.4	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)