

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4090.9 lumens
Efficiency: N/A
Efficacy: 112.4 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

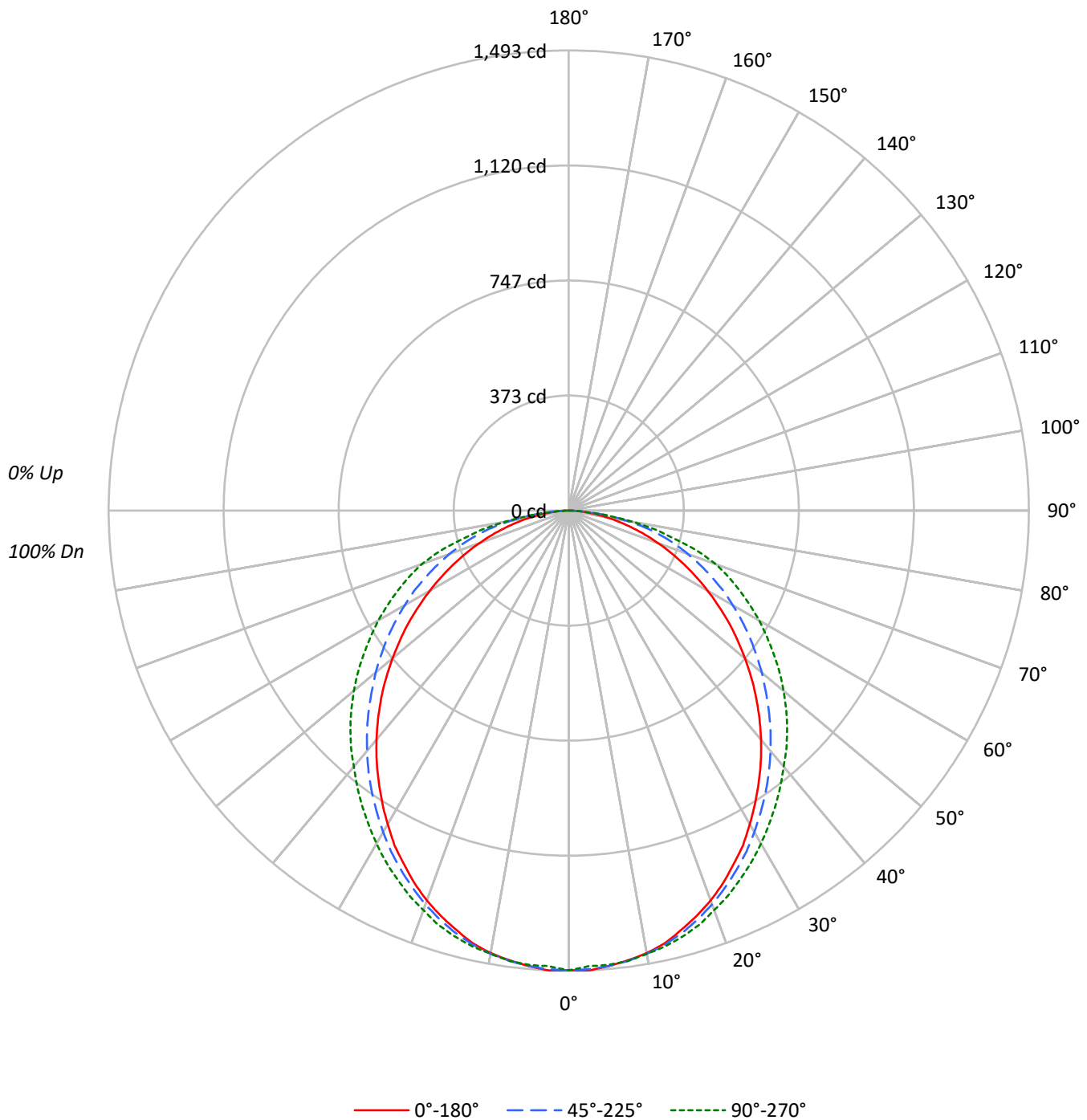
Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4013	4013	4013
5°	3990	3983	3979
10°	3949	3940	3954
15°	3873	3879	3932
20°	3786	3796	3880
25°	3672	3699	3825
30°	3549	3596	3768
35°	3411	3487	3711
40°	3273	3375	3657
45°	3119	3261	3632
50°	2950	3156	3594
55°	2779	3056	3553
60°	2579	2949	3533
65°	2373	2835	3514
70°	2134	2706	3507
75°	1842	2538	3116
80°	1495	2130	2515
85°	1004	1241	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	3.4
10°-20°	400.1	9.8
20°-30°	594.2	14.5
30°-40°	699.4	17.1
40°-50°	713.1	17.4
50°-60°	643.1	15.7
60°-70°	506.6	12.4
70°-80°	312.5	7.6
80°-90°	81.1	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°	1135.1	27.7
0°-40°	1834.5	44.8
0°-60°	3190.7	78.0
0°-90°	4090.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1484	1486	1484	1482	1480	141
15°	1409	1415	1419	1426	1430	397
25°	1265	1273	1287	1309	1318	583
35°	1075	1087	1114	1150	1169	672
45°	861	874	918	973	1002	663
55°	635	656	717	782	812	566
65°	413	442	513	578	611	409
75°	210	246	308	344	356	224
85°	51	65	73	69	65	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491.4	1491.4	1491.4	1491.4	1491.4
2.5°	1493.3	1493.3	1489.4	1485.5	1479.6
5°	1483.5	1485.5	1483.5	1481.5	1479.6
7.5°	1471.7	1473.7	1473.7	1473.7	1473.7
10°	1458.0	1459.9	1459.9	1459.9	1459.9
12.5°	1438.3	1440.3	1442.2	1444.2	1448.1
15°	1408.8	1414.7	1418.7	1426.5	1430.4
17.5°	1379.4	1385.3	1391.1	1401.0	1408.8
20°	1346.0	1349.9	1359.7	1371.5	1379.4
22.5°	1308.6	1314.5	1324.3	1340.1	1351.9
25°	1265.4	1273.3	1287.0	1308.6	1318.4
27.5°	1224.1	1230.0	1247.7	1271.3	1285.0
30°	1175.0	1182.9	1204.5	1234.0	1247.7
32.5°	1125.9	1135.7	1159.3	1192.7	1208.4
35°	1074.8	1086.6	1114.1	1149.5	1169.1
37.5°	1023.7	1035.5	1066.9	1106.2	1127.9
40°	970.7	982.4	1017.8	1061.0	1084.6
42.5°	915.6	929.4	968.7	1017.8	1045.3
45°	860.6	874.4	917.6	972.6	1002.1
47.5°	803.6	819.4	866.5	927.4	956.9
50°	746.7	764.3	817.4	880.3	909.7
52.5°	689.7	709.3	766.3	831.2	862.6
55°	634.7	656.3	717.2	782.0	811.5
57.5°	575.7	601.3	666.1	729.0	762.4
60°	520.7	548.2	615.0	677.9	713.3
62.5°	465.7	495.2	565.9	628.8	662.2
65°	412.6	442.1	512.8	577.7	611.1
67.5°	359.6	393.0	461.8	526.6	560.0
70°	308.5	343.9	410.7	473.5	506.9
72.5°	259.4	294.7	361.5	420.5	440.1
75°	210.2	245.6	308.5	343.9	355.6
77.5°	165.1	198.5	253.5	275.1	290.8
80°	123.8	153.3	192.6	206.3	208.3
82.5°	84.5	110.0	133.6	135.6	133.6
85°	51.1	64.8	72.7	68.8	64.8
87.5°	23.6	25.5	23.6	15.7	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)