

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-LD5-20-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-LD5-20-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

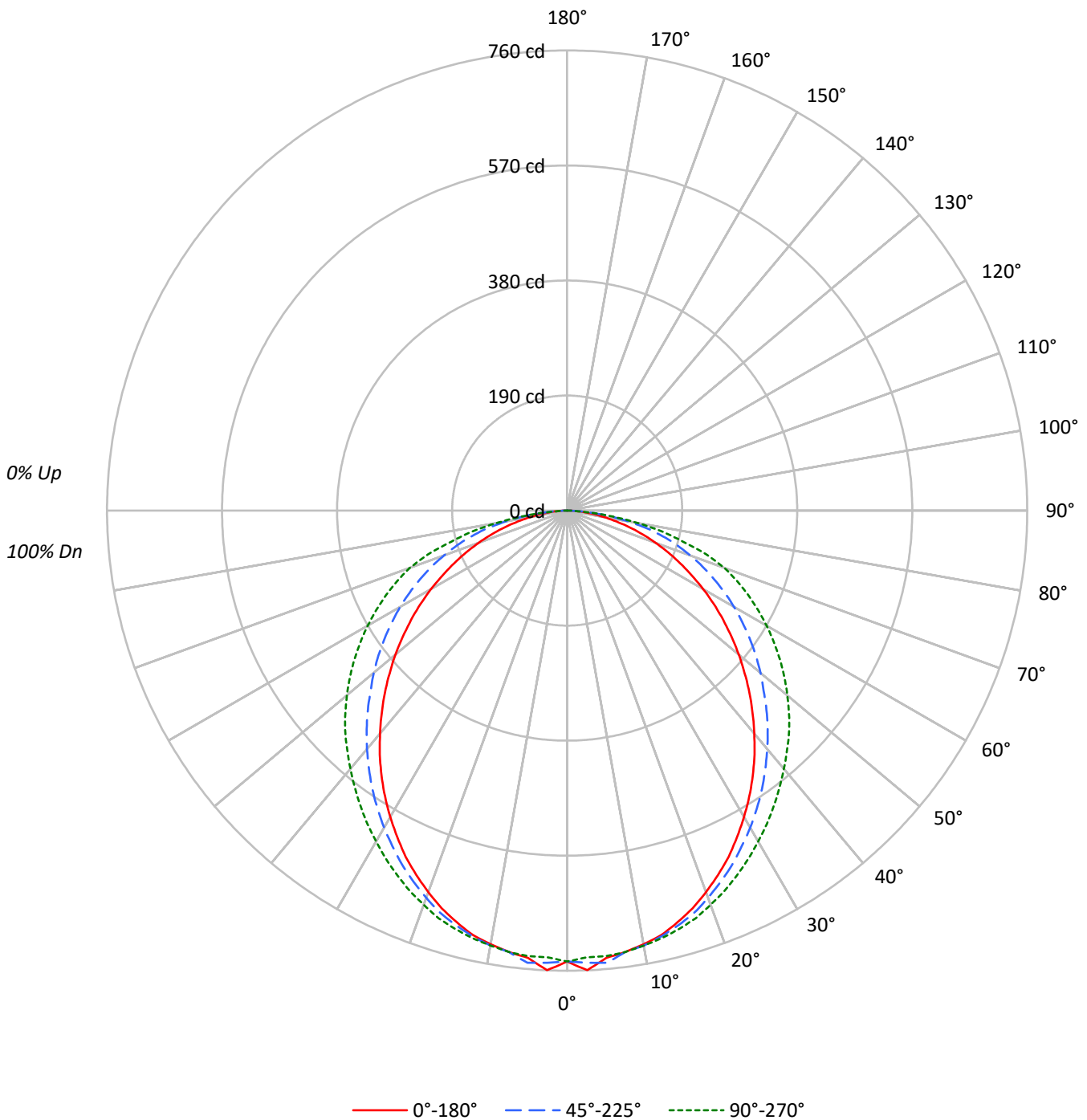
Lumens per Lamp: N/A
Luminaire Lumens: 2086.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 16.38
Input Voltage (V): NR
Input Current (A_{in}): 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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2004	2004	2004
5°	1994	2012	1986
10°	1970	1968	1975
15°	1935	1939	1966
20°	1886	1900	1948
25°	1831	1855	1928
30°	1765	1805	1906
35°	1697	1756	1890
40°	1621	1705	1878
45°	1544	1655	1879
50°	1463	1610	1876
55°	1377	1569	1879
60°	1286	1527	1884
65°	1184	1481	1896
70°	1074	1424	1909
75°	933	1343	1733
80°	747	1122	1421
85°	519	657	737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	3.4
10°-20°	200.0	9.6
20°-30°	297.6	14.3
30°-40°	351.9	16.9
40°-50°	361.7	17.3
50°-60°	330.5	15.8
60°-70°	264.4	12.7
70°-80°	165.9	8.0
80°-90°	43.2	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°	568.2	27.2
0°-40°	920.2	44.1
0°-60°	1612.4	77.3
0°-90°	2086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	742	742	750	745	738	70
15°	704	705	709	713	715	198
25°	631	635	645	656	664	290
35°	535	542	561	582	595	334
45°	426	437	466	500	518	328
55°	314	330	368	409	429	281
65°	206	224	268	308	330	204
75°	106	127	163	188	198	113
85°	26	34	38	38	38	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.6	744.6	744.6	744.6	744.6
2.5°	759.8	756.7	747.6	741.5	738.5
5°	741.5	741.5	749.6	744.6	738.5
7.5°	735.4	735.4	735.4	750.7	735.4
10°	727.3	728.3	729.3	735.4	729.3
12.5°	718.2	718.2	720.2	722.2	723.3
15°	704.0	705.0	709.1	713.1	715.1
17.5°	688.8	691.8	696.9	702.0	706.0
20°	670.5	674.6	680.7	688.8	692.8
22.5°	651.2	655.3	663.4	672.5	679.6
25°	631.0	635.0	645.2	656.3	664.4
27.5°	607.6	612.7	624.9	640.1	648.2
30°	584.3	590.4	604.6	621.8	631.0
32.5°	559.9	567.0	583.3	602.5	613.7
35°	534.6	541.7	561.0	582.3	595.4
37.5°	508.2	516.3	537.6	562.0	576.2
40°	480.8	490.0	514.3	540.7	556.9
42.5°	453.4	463.6	490.0	521.4	537.6
45°	426.0	437.2	465.6	500.1	518.4
47.5°	397.6	410.8	440.2	478.8	497.1
50°	370.3	383.4	416.9	456.5	474.7
52.5°	341.9	357.1	392.6	433.1	452.4
55°	314.5	329.7	368.2	408.8	429.1
57.5°	287.1	302.3	342.9	384.5	404.7
60°	259.7	275.9	318.5	359.1	380.4
62.5°	232.3	249.5	293.2	334.7	355.0
65°	205.9	224.2	267.8	308.4	329.7
67.5°	180.6	199.8	242.4	282.0	303.3
70°	155.2	174.5	216.1	254.6	275.9
72.5°	130.9	150.1	190.7	225.2	241.4
75°	106.5	126.8	163.3	187.7	197.8
77.5°	83.2	103.5	134.9	151.1	162.3
80°	61.9	79.1	101.4	113.6	117.7
82.5°	42.6	56.8	71.0	74.1	76.1
85°	26.4	33.5	38.5	37.5	37.5
87.5°	12.2	13.2	11.2	8.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)