

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-L830-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-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

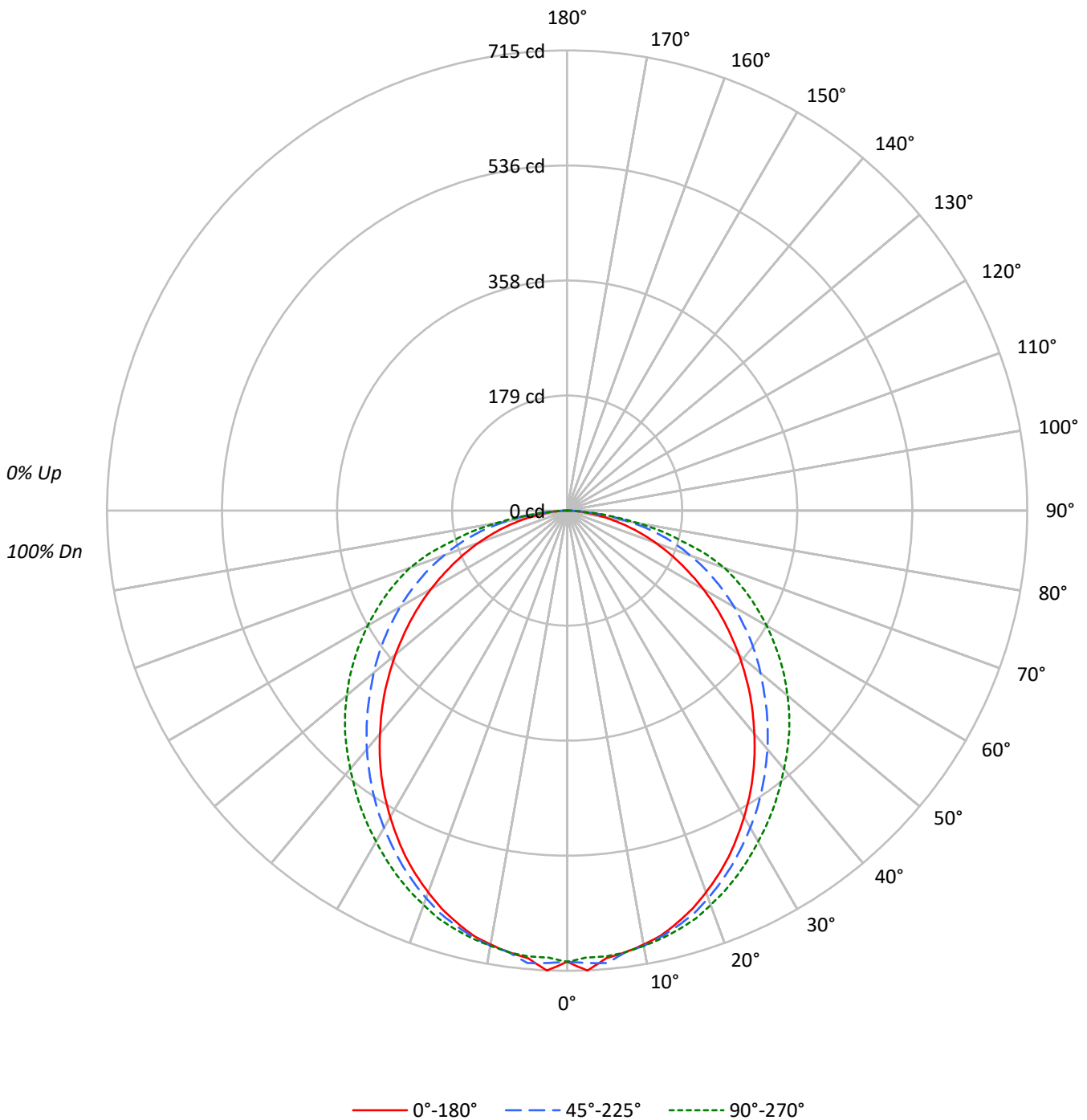
Lumens per Lamp: N/A
Luminaire Lumens: 1963.6 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

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°	1886	1886	1886
5°	1878	1895	1869
10°	1855	1853	1860
15°	1822	1825	1851
20°	1775	1789	1834
25°	1723	1746	1815
30°	1661	1699	1794
35°	1597	1653	1779
40°	1526	1605	1767
45°	1454	1558	1768
50°	1377	1515	1766
55°	1296	1477	1769
60°	1211	1437	1774
65°	1114	1394	1785
70°	1011	1340	1797
75°	878	1264	1632
80°	703	1056	1338
85°	487	620	694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.4
10°-20°	188.3	9.6
20°-30°	280.1	14.3
30°-40°	331.3	16.9
40°-50°	340.5	17.3
50°-60°	311.1	15.8
60°-70°	248.9	12.7
70°-80°	156.2	8.0
80°-90°	40.7	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°	534.9	27.2
0°-40°	866.2	44.1
0°-60°	1517.8	77.3
0°-90°	1963.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	701	701	701	701	701	
5°	698	698	706	701	695	66
15°	663	664	668	671	673	187
25°	594	598	607	618	626	273
35°	503	510	528	548	560	314
45°	401	412	438	471	488	309
55°	296	310	347	385	404	265
65°	194	211	252	290	310	192
75°	100	119	154	177	186	106
85°	25	32	36	35	35	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.9	700.9	700.9	700.9	700.9
2.5°	715.3	712.3	703.8	698.1	695.1
5°	698.1	698.1	705.7	700.9	695.1
7.5°	692.3	692.3	692.3	706.6	692.3
10°	684.7	685.6	686.6	692.3	686.6
12.5°	676.0	676.0	678.0	679.9	680.9
15°	662.7	663.7	667.5	671.3	673.2
17.5°	648.4	651.2	656.0	660.8	664.6
20°	631.2	635.0	640.8	648.4	652.2
22.5°	613.0	616.8	624.5	633.1	639.7
25°	593.9	597.7	607.3	617.8	625.5
27.5°	572.0	576.7	588.2	602.5	610.2
30°	550.0	555.8	569.1	585.4	593.9
32.5°	527.1	533.8	549.1	567.2	577.7
35°	503.2	509.9	528.0	548.2	560.5
37.5°	478.4	486.0	506.1	529.0	542.4
40°	452.6	461.2	484.1	508.9	524.2
42.5°	426.8	436.3	461.2	490.8	506.1
45°	401.1	411.5	438.3	470.7	487.9
47.5°	374.3	386.7	414.4	450.7	467.9
50°	348.6	360.9	392.4	429.7	446.9
52.5°	321.8	336.1	369.5	407.7	425.9
55°	296.0	310.4	346.7	384.8	403.9
57.5°	270.3	284.5	322.7	361.9	381.0
60°	244.4	259.7	299.8	338.0	358.1
62.5°	218.7	234.9	276.0	315.1	334.2
65°	193.8	211.0	252.1	290.3	310.4
67.5°	170.0	188.1	228.2	265.4	285.5
70°	146.1	164.3	203.4	239.7	259.7
72.5°	123.2	141.4	179.5	211.9	227.2
75°	100.2	119.3	153.7	176.7	186.2
77.5°	78.3	97.4	127.0	142.3	152.8
80°	58.2	74.5	95.5	107.0	110.8
82.5°	40.1	53.5	66.9	69.7	71.6
85°	24.8	31.5	36.3	35.3	35.3
87.5°	11.5	12.4	10.5	7.6	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)