

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2127.7 lumens
Efficiency: N/A
Efficacy: 129.9 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

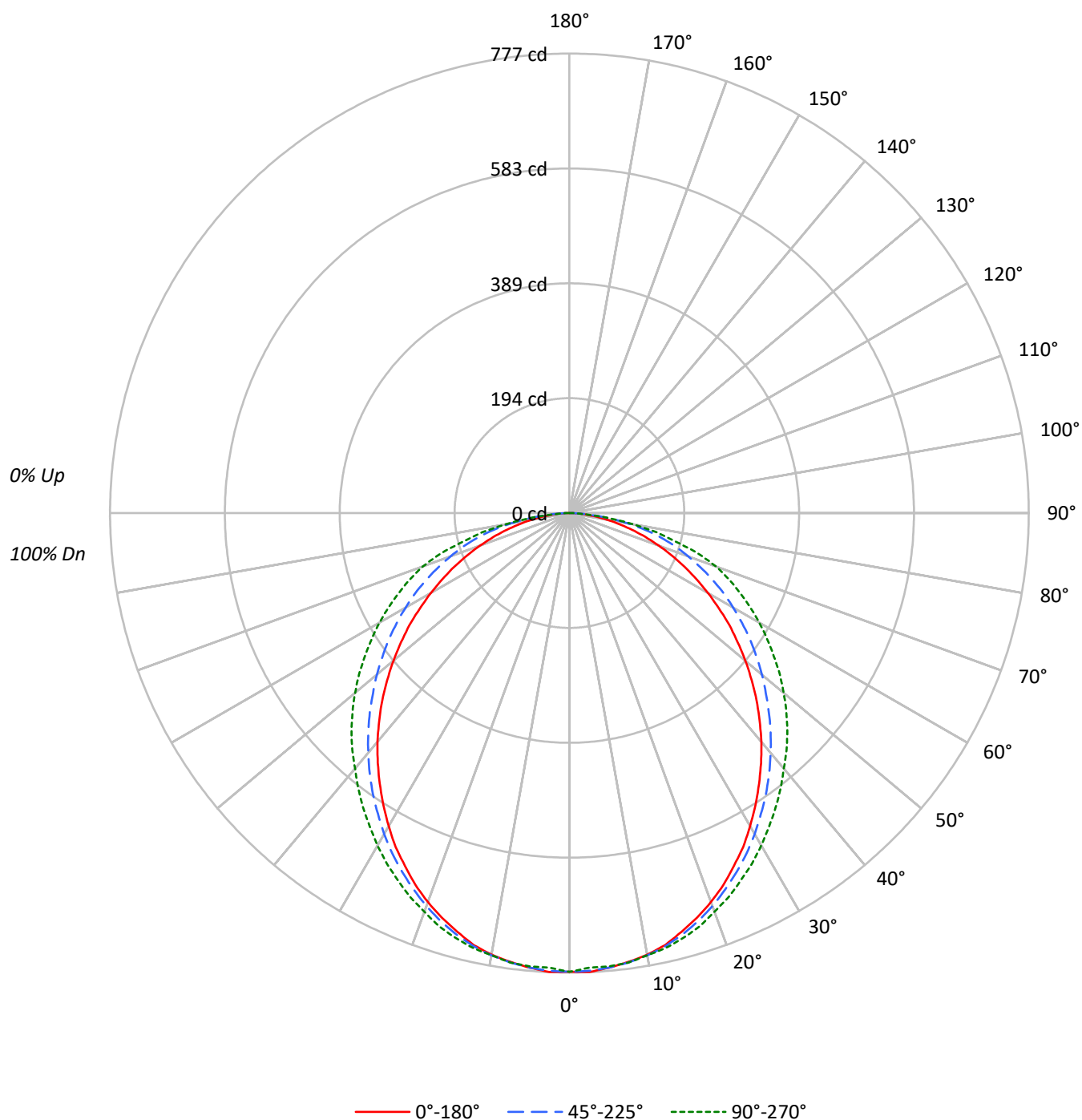
Input Watts (W): 16.38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2087	2087	2087
5°	2075	2071	2070
10°	2054	2049	2057
15°	2015	2017	2045
20°	1969	1974	2018
25°	1910	1924	1990
30°	1846	1870	1960
35°	1774	1814	1930
40°	1702	1756	1902
45°	1622	1696	1889
50°	1535	1641	1870
55°	1445	1589	1848
60°	1341	1534	1838
65°	1234	1475	1828
70°	1110	1407	1824
75°	959	1320	1621
80°	778	1108	1308
85°	523	645	662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.4
10°-20°	208.1	9.8
20°-30°	309.1	14.5
30°-40°	363.8	17.1
40°-50°	370.9	17.4
50°-60°	334.5	15.7
60°-70°	263.5	12.4
70°-80°	162.5	7.6
80°-90°	42.2	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°	590.4	27.7
0°-40°	954.2	44.8
0°-60°	1659.5	78.0
0°-90°	2127.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	772	773	772	771	770	73
15°	733	736	738	742	744	207
25°	658	662	669	681	686	303
35°	559	565	580	598	608	350
45°	448	455	477	506	521	345
55°	330	341	373	407	422	295
65°	215	230	267	300	318	213
75°	109	128	160	179	185	117
85°	27	34	38	36	34	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.7	775.7	775.7	775.7	775.7
2.5°	776.7	776.7	774.7	772.6	769.5
5°	771.6	772.6	771.6	770.6	769.5
7.5°	765.5	766.5	766.5	766.5	766.5
10°	758.3	759.3	759.3	759.3	759.3
12.5°	748.1	749.1	750.1	751.2	753.2
15°	732.8	735.8	737.9	742.0	744.0
17.5°	717.4	720.5	723.6	728.7	732.8
20°	700.1	702.1	707.2	713.3	717.4
22.5°	680.6	683.7	688.8	697.0	703.1
25°	658.2	662.2	669.4	680.6	685.7
27.5°	636.7	639.8	649.0	661.2	668.4
30°	611.1	615.2	626.5	641.8	649.0
32.5°	585.6	590.7	603.0	620.3	628.5
35°	559.0	565.2	579.5	597.9	608.1
37.5°	532.4	538.6	554.9	575.4	586.6
40°	504.9	511.0	529.4	551.9	564.1
42.5°	476.2	483.4	503.8	529.4	543.7
45°	447.6	454.8	477.3	505.9	521.2
47.5°	418.0	426.2	450.7	482.4	497.7
50°	388.4	397.5	425.1	457.8	473.2
52.5°	358.7	368.9	398.6	432.3	448.6
55°	330.1	341.3	373.0	406.7	422.1
57.5°	299.4	312.7	346.4	379.2	396.5
60°	270.8	285.1	319.9	352.6	371.0
62.5°	242.2	257.5	294.3	327.0	344.4
65°	214.6	229.9	266.7	300.5	317.8
67.5°	187.0	204.4	240.2	273.9	291.3
70°	160.5	178.8	213.6	246.3	263.7
72.5°	134.9	153.3	188.0	218.7	228.9
75°	109.4	127.7	160.5	178.8	185.0
77.5°	85.8	103.2	131.8	143.1	151.3
80°	64.4	79.7	100.2	107.3	108.3
82.5°	43.9	57.2	69.5	70.5	69.5
85°	26.6	33.7	37.8	35.8	33.7
87.5°	12.3	13.3	12.3	8.2	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)