

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-LD5-24-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-LD5-24-S-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2519.4 lumens
Efficiency: N/A
Efficacy: 128.4 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

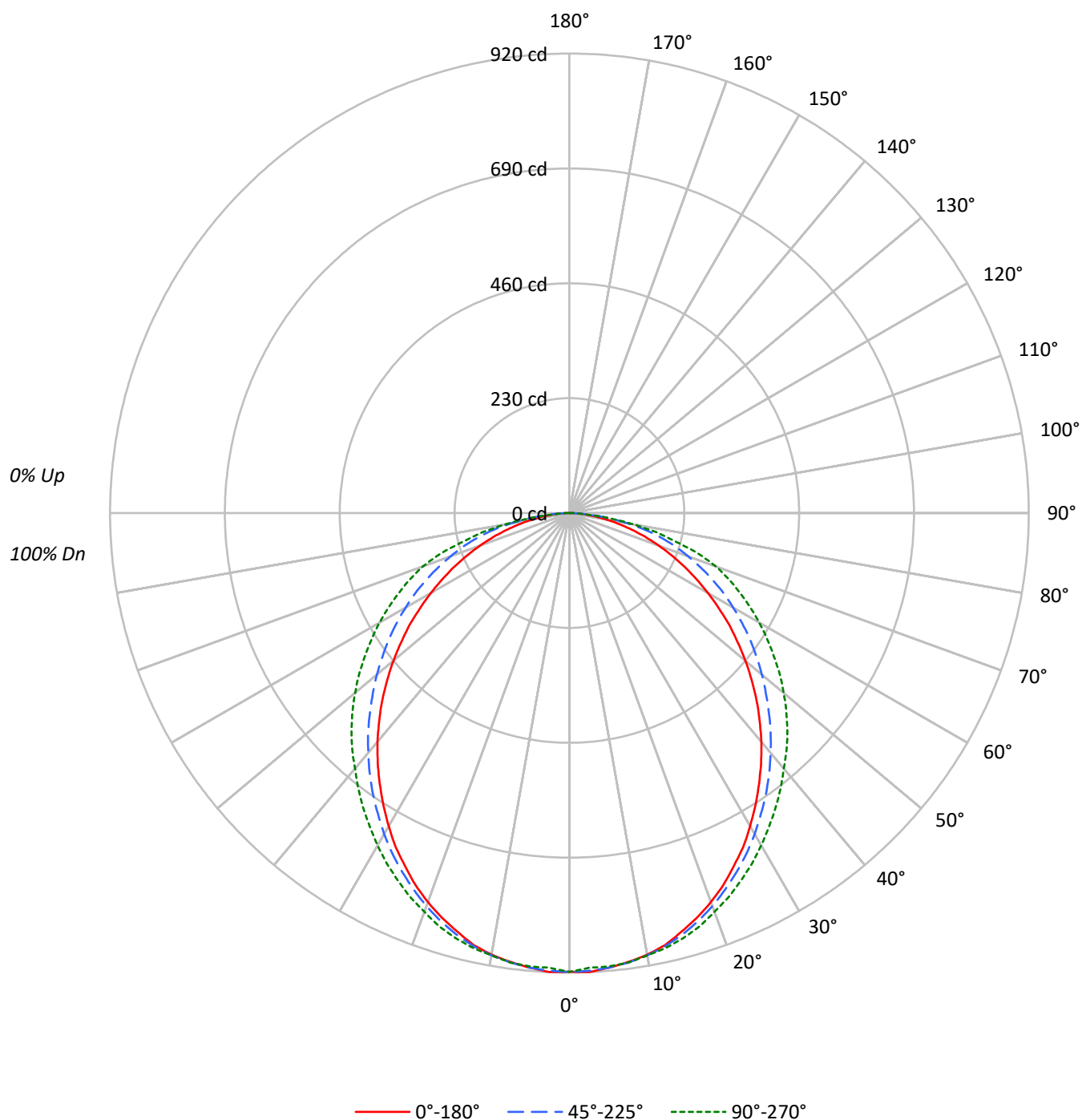
Input Watts (W): 19.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2472	2472	2472
5°	2457	2453	2451
10°	2432	2427	2435
15°	2385	2389	2422
20°	2331	2338	2389
25°	2261	2278	2356
30°	2185	2215	2321
35°	2101	2148	2285
40°	2015	2079	2252
45°	1921	2009	2237
50°	1817	1944	2214
55°	1712	1882	2189
60°	1588	1816	2176
65°	1461	1746	2164
70°	1314	1666	2160
75°	1135	1563	1919
80°	920	1312	1549
85°	619	765	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.4
10°-20°	246.4	9.8
20°-30°	365.9	14.5
30°-40°	430.8	17.1
40°-50°	439.1	17.4
50°-60°	396.1	15.7
60°-70°	312.0	12.4
70°-80°	192.4	7.6
80°-90°	50.0	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°	699.1	27.7
0°-40°	1129.8	44.8
0°-60°	1965.0	78.0
0°-90°	2519.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2519.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	914	915	914	912	911	87
15°	868	871	874	878	881	245
25°	779	784	793	806	812	359
35°	662	669	686	708	720	414
45°	530	538	565	599	617	409
55°	391	404	442	482	500	349
65°	254	272	316	356	376	252
75°	130	151	190	212	219	138
85°	32	40	45	42	40	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.5	918.5	918.5	918.5	918.5
2.5°	919.7	919.7	917.3	914.8	911.2
5°	913.6	914.8	913.6	912.4	911.2
7.5°	906.4	907.6	907.6	907.6	907.6
10°	897.9	899.1	899.1	899.1	899.1
12.5°	885.8	887.0	888.2	889.4	891.8
15°	867.6	871.3	873.7	878.5	881.0
17.5°	849.5	853.1	856.8	862.8	867.6
20°	828.9	831.3	837.4	844.7	849.5
22.5°	805.9	809.6	815.6	825.3	832.6
25°	779.3	784.1	792.6	805.9	812.0
27.5°	753.9	757.5	768.4	782.9	791.4
30°	723.6	728.5	741.8	759.9	768.4
32.5°	693.4	699.4	714.0	734.5	744.2
35°	661.9	669.2	686.1	707.9	720.0
37.5°	630.5	637.7	657.1	681.3	694.6
40°	597.8	605.1	626.8	653.5	668.0
42.5°	563.9	572.4	596.6	626.8	643.8
45°	530.0	538.5	565.1	599.0	617.2
47.5°	494.9	504.6	533.7	571.2	589.3
50°	459.8	470.7	503.4	542.1	560.3
52.5°	424.7	436.8	471.9	511.9	531.2
55°	390.9	404.2	441.7	481.6	499.8
57.5°	354.6	370.3	410.2	448.9	469.5
60°	320.7	337.6	378.8	417.5	439.3
62.5°	286.8	304.9	348.5	387.2	407.8
65°	254.1	272.3	315.8	355.8	376.3
67.5°	221.4	242.0	284.4	324.3	344.9
70°	190.0	211.8	252.9	291.6	312.2
72.5°	159.7	181.5	222.7	259.0	271.1
75°	129.5	151.3	190.0	211.8	219.0
77.5°	101.6	122.2	156.1	169.4	179.1
80°	76.2	94.4	118.6	127.1	128.3
82.5°	52.0	67.8	82.3	83.5	82.3
85°	31.5	39.9	44.8	42.4	39.9
87.5°	14.5	15.7	14.5	9.7	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)