

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: P230540

Luminaire Tested: **22CZ-LD5-29-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230540
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-LD5-29-UNV-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2401.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

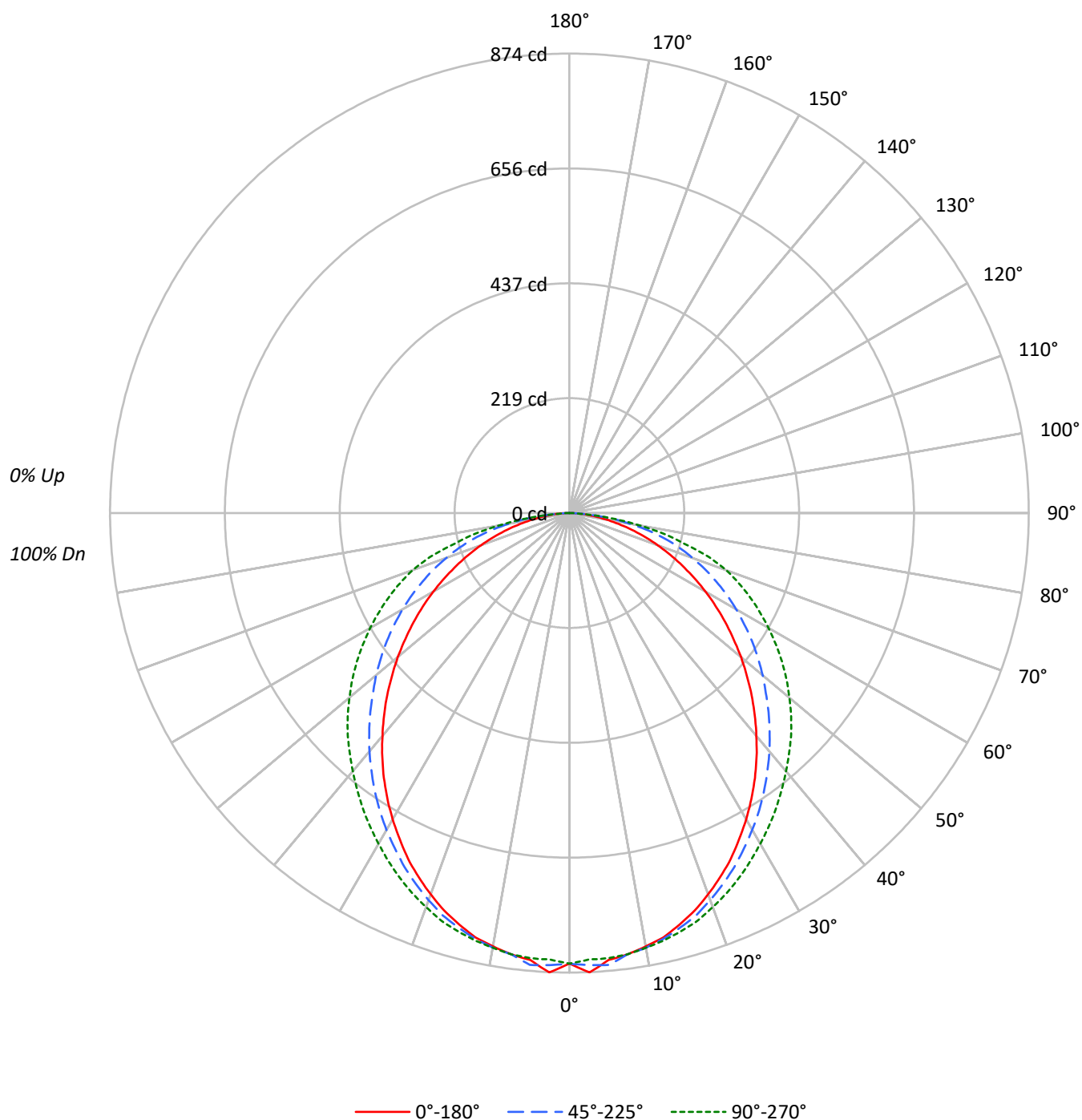
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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	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°	2306	2306	2306
5°	2306	2331	2296
10°	2287	2294	2294
15°	2257	2274	2293
20°	2210	2243	2284
25°	2156	2205	2271
30°	2090	2162	2257
35°	2021	2121	2252
40°	1944	2080	2252
45°	1866	2039	2270
50°	1784	2009	2287
55°	1698	1988	2317
60°	1609	1973	2356
65°	1509	1962	2416
70°	1405	1957	2499
75°	1275	1955	2367
80°	1103	1810	2098
85°	939	1371	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.4
10°-20°	230.2	9.6
20°-30°	342.5	14.3
30°-40°	405.1	16.9
40°-50°	416.3	17.3
50°-60°	380.4	15.8
60°-70°	304.3	12.7
70°-80°	191.0	8.0
80°-90°	49.7	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°	654.0	27.2
0°-40°	1059.1	44.1
0°-60°	1855.9	77.3
0°-90°	2401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	854	854	863	857	850	81
15°	810	812	816	821	823	228
25°	726	731	743	755	765	334
35°	615	624	646	670	685	385
45°	490	503	536	576	597	378
55°	362	380	424	470	494	324
65°	237	258	308	355	380	235
75°	123	146	188	216	228	130
85°	30	38	44	43	43	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.0	857.0	857.0	857.0	857.0
2.5°	874.5	871.0	860.5	853.5	850.0
5°	853.5	853.5	862.8	857.0	850.0
7.5°	846.5	846.5	846.5	864.0	846.5
10°	837.1	838.3	839.5	846.5	839.5
12.5°	826.6	826.6	829.0	831.3	832.5
15°	810.3	811.5	816.1	820.8	823.1
17.5°	792.8	796.3	802.1	808.0	812.6
20°	771.8	776.4	783.4	792.8	797.5
22.5°	749.6	754.3	763.6	774.1	782.3
25°	726.2	730.9	742.6	755.4	764.8
27.5°	699.4	705.2	719.2	736.7	746.1
30°	672.5	679.5	695.9	715.7	726.2
32.5°	644.5	652.7	671.4	693.5	706.4
35°	615.3	623.5	645.7	670.2	685.4
37.5°	585.0	594.3	618.8	646.8	663.2
40°	553.4	563.9	592.0	622.3	641.0
42.5°	521.9	533.6	563.9	600.1	618.8
45°	490.4	503.2	535.9	575.6	596.6
47.5°	457.7	472.9	506.7	551.1	572.1
50°	426.2	441.3	479.9	525.4	546.4
52.5°	393.5	411.0	451.9	498.6	520.7
55°	361.9	379.5	423.8	470.5	493.9
57.5°	330.4	347.9	394.6	442.5	465.9
60°	298.9	317.6	366.6	413.3	437.8
62.5°	267.4	287.2	337.4	385.3	408.7
65°	237.0	258.0	308.2	354.9	379.5
67.5°	207.8	230.0	279.0	324.6	349.1
70°	178.6	200.8	248.7	293.1	317.6
72.5°	150.6	172.8	219.5	259.2	277.9
75°	122.6	145.9	188.0	216.0	227.7
77.5°	95.7	119.1	155.3	174.0	186.8
80°	71.2	91.1	116.8	130.8	135.4
82.5°	49.0	65.4	81.7	85.2	87.6
85°	30.4	38.5	44.4	43.2	43.2
87.5°	14.0	15.2	12.8	9.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)