

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: P259280

Luminaire Tested: **22CZ-LD5-24-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259280
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-LD5-24-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2433.0 lumens
Efficiency: N/A
Efficacy: 137.0 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

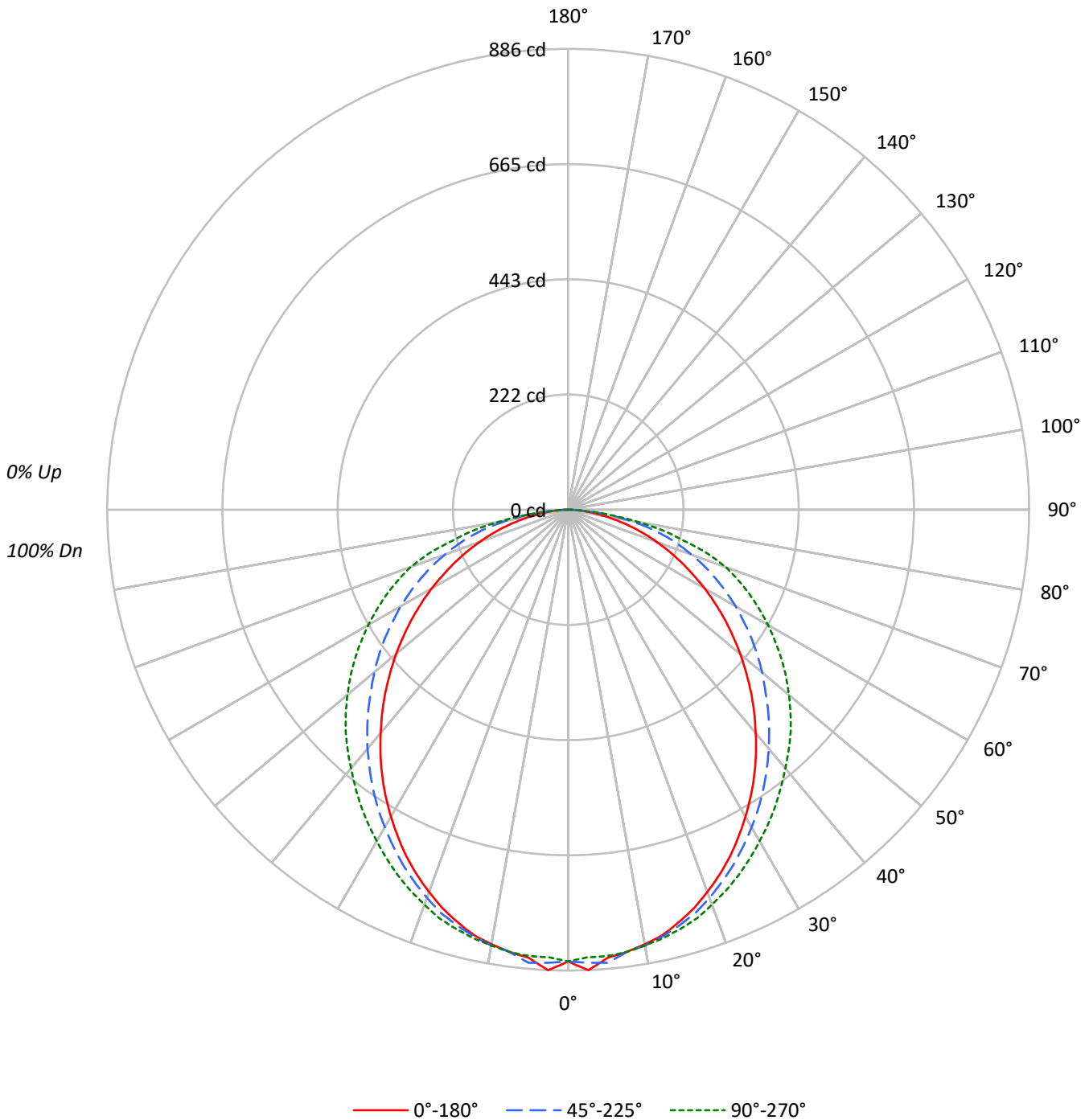
Input Watts (W): 17.763
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2337	2337	2337
5°	2336	2362	2327
10°	2318	2325	2325
15°	2288	2304	2324
20°	2240	2273	2314
25°	2185	2234	2301
30°	2118	2191	2287
35°	2048	2149	2281
40°	1970	2107	2282
45°	1891	2067	2301
50°	1808	2036	2318
55°	1721	2015	2348
60°	1630	1999	2388
65°	1529	1989	2448
70°	1424	1983	2532
75°	1291	1981	2399
80°	1119	1833	2126
85°	951	1389	1352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.4
10°-20°	233.3	9.6
20°-30°	347.1	14.3
30°-40°	410.5	16.9
40°-50°	421.9	17.3
50°-60°	385.5	15.8
60°-70°	308.4	12.7
70°-80°	193.6	8.0
80°-90°	50.4	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°	662.7	27.2
0°-40°	1073.2	44.1
0°-60°	1880.7	77.3
0°-90°	2433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	865	865	874	868	861	82
15°	821	822	827	832	834	231
25°	736	741	752	766	775	338
35°	624	632	654	679	694	390
45°	497	510	543	583	605	383
55°	367	384	430	477	500	328
65°	240	262	312	360	384	238
75°	124	148	190	219	231	132
85°	31	39	45	44	44	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.4	868.4	868.4	868.4	868.4
2.5°	886.2	882.6	872.0	864.9	861.3
5°	864.9	864.9	874.3	868.4	861.3
7.5°	857.8	857.8	857.8	875.5	857.8
10°	848.3	849.5	850.7	857.8	850.7
12.5°	837.7	837.7	840.0	842.4	843.6
15°	821.1	822.3	827.0	831.7	834.1
17.5°	803.3	806.9	812.8	818.7	823.5
20°	782.1	786.8	793.9	803.3	808.1
22.5°	759.6	764.3	773.8	784.4	792.7
25°	735.9	740.6	752.5	765.5	775.0
27.5°	708.7	714.6	728.8	746.6	756.0
30°	681.5	688.6	705.1	725.3	735.9
32.5°	653.1	661.4	680.3	702.8	715.8
35°	623.5	631.8	654.3	679.1	694.5
37.5°	592.7	602.2	627.1	655.5	672.0
40°	560.8	571.5	599.8	630.6	649.5
42.5°	528.9	540.7	571.5	608.1	627.1
45°	496.9	509.9	543.1	583.3	604.6
47.5°	463.8	479.2	513.5	558.4	579.7
50°	431.8	447.2	486.3	532.4	553.7
52.5°	398.7	416.5	457.9	505.2	527.7
55°	366.8	384.5	429.5	476.8	500.5
57.5°	334.8	352.6	399.9	448.4	472.1
60°	302.9	321.8	371.5	418.8	443.7
62.5°	270.9	291.1	341.9	390.4	414.1
65°	240.2	261.5	312.3	359.7	384.5
67.5°	210.6	233.1	282.8	328.9	353.8
70°	181.0	203.5	252.0	297.0	321.8
72.5°	152.6	175.1	222.4	262.7	281.6
75°	124.2	147.9	190.5	218.9	230.7
77.5°	97.0	120.7	157.4	176.3	189.3
80°	72.2	92.3	118.3	132.5	137.2
82.5°	49.7	66.3	82.8	86.4	88.7
85°	30.8	39.0	45.0	43.8	43.8
87.5°	14.2	15.4	13.0	9.5	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)