

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: P258835

Luminaire Tested: **14CZ-LD5-25-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2382.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

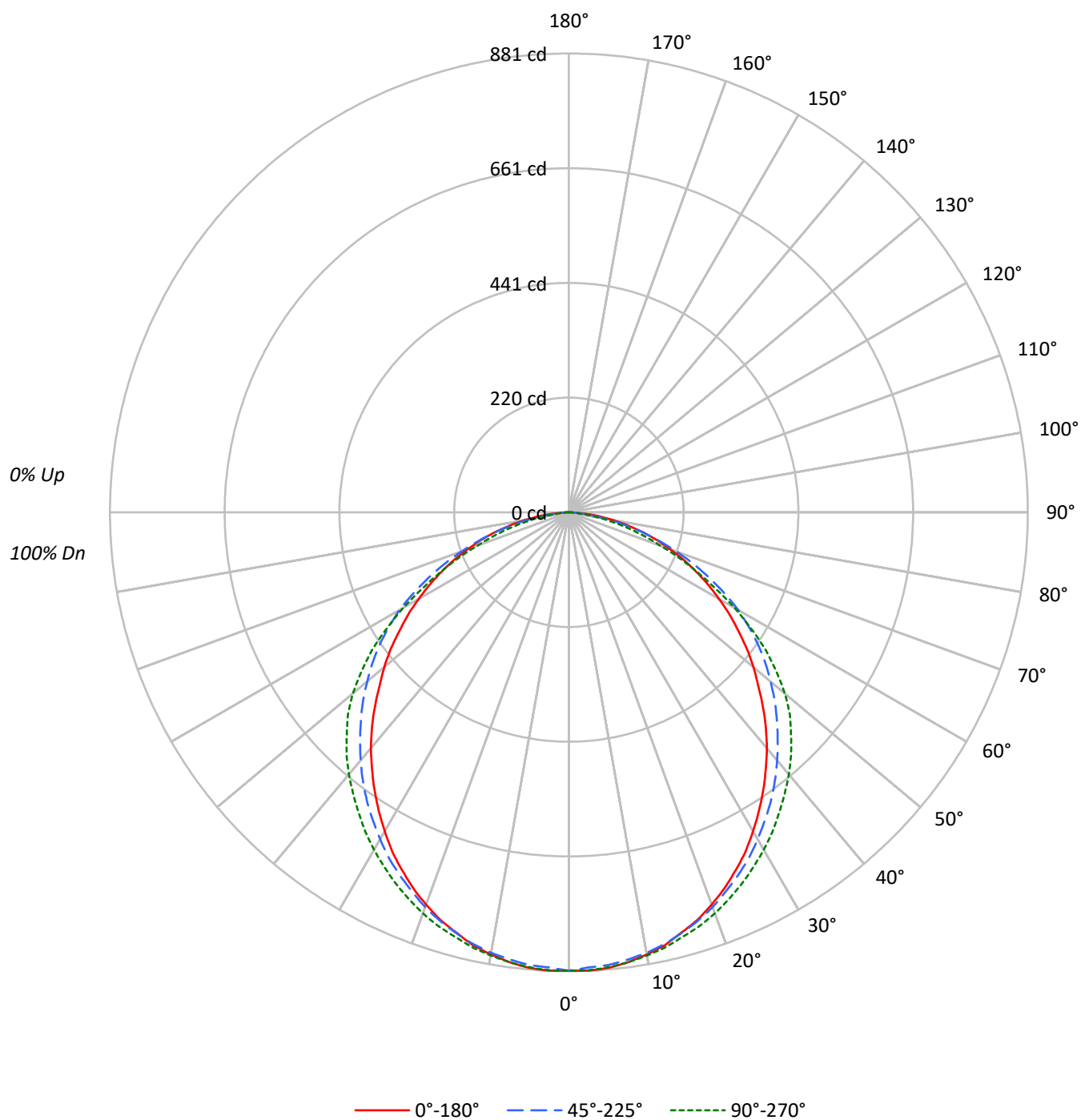
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	105	100	97	106	102	98	95		98	95	92		94	92	89		91	89	87
2	99	91	85	79	97	89	83	78		86	81	76		83	78	75		80	76	73
3	91	80	72	66	88	79	71	65		76	69	64		73	68	63		70	66	62
4	83	71	63	56	81	70	62	56		67	60	55		65	59	54		63	58	53
5	76	64	55	48	74	63	54	48		60	53	47		58	52	47		57	51	46
6	71	57	48	42	69	56	48	42		55	47	42		53	46	41		51	45	41
7	65	52	43	37	64	51	43	37		50	42	37		48	42	37		47	41	36
8	61	47	39	33	59	47	39	33		45	38	33		44	38	33		43	37	32
9	57	44	35	30	56	43	35	30		42	35	30		41	34	30		40	34	29
10	53	40	32	27	52	40	32	27		39	32	27		38	31	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2368	2368	2368
5°	2371	2357	2368
10°	2355	2346	2361
15°	2327	2330	2351
20°	2295	2310	2346
25°	2250	2282	2335
30°	2197	2252	2325
35°	2137	2221	2312
40°	2077	2185	2308
45°	2004	2149	2294
50°	1937	2115	2266
55°	1863	2082	2166
60°	1794	2022	1976
65°	1717	1892	1737
70°	1620	1721	1470
75°	1512	1490	1214
80°	1333	1151	888
85°	1050	556	491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.5
10°-20°	236.9	9.9
20°-30°	355.5	14.9
30°-40°	423.8	17.8
40°-50°	436.5	18.3
50°-60°	389.0	16.3
60°-70°	280.3	11.8
70°-80°	146.6	6.2
80°-90°	30.3	1.3
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°	675.5	28.4
0°-40°	1099.3	46.1
0°-60°	1924.8	80.8
0°-90°	2382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	878	876	872	878	877	83
15°	835	836	836	845	844	236
25°	758	762	768	783	786	349
35°	651	659	676	698	704	407
45°	526	538	565	596	603	406
55°	397	410	444	464	462	356
65°	270	279	297	283	273	267
75°	145	153	143	124	117	154
85°	34	30	18	16	16	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.9	879.9	879.9	879.9	879.9
2.5°	881.0	878.9	874.6	879.9	879.9
5°	877.8	875.7	872.5	877.8	876.7
7.5°	871.4	869.3	866.1	872.5	871.4
10°	861.9	860.8	858.7	865.1	864.0
12.5°	851.3	850.2	849.1	855.5	855.5
15°	835.3	836.4	836.4	844.9	843.8
17.5°	820.5	821.5	822.6	833.2	833.2
20°	801.4	802.4	806.7	818.3	819.4
22.5°	781.2	782.3	787.6	801.4	803.5
25°	757.8	762.1	768.5	783.3	786.5
27.5°	734.5	737.7	748.3	765.3	767.4
30°	706.9	713.3	724.9	744.1	748.3
32.5°	679.3	686.7	700.5	721.8	727.1
35°	650.6	659.1	676.1	698.4	703.7
37.5°	620.9	628.4	649.6	672.9	680.4
40°	591.2	598.6	622.0	648.5	657.0
42.5°	559.4	570.0	593.3	623.0	631.5
45°	526.5	538.1	564.7	596.5	602.9
47.5°	492.5	505.2	536.0	567.9	575.3
50°	462.8	474.5	505.2	536.0	541.3
52.5°	430.9	441.5	475.5	501.0	502.0
55°	397.0	409.7	443.7	463.8	461.7
57.5°	366.2	376.8	409.7	420.3	414.0
60°	333.3	342.8	375.7	376.8	367.2
62.5°	301.4	311.0	336.5	329.0	317.4
65°	269.6	279.2	297.2	283.4	272.8
67.5°	238.8	247.3	257.9	239.9	229.3
70°	205.9	217.6	218.7	197.4	186.8
72.5°	177.3	183.6	181.5	161.3	151.8
75°	145.4	152.8	143.3	124.2	116.8
77.5°	115.7	121.0	108.3	90.2	84.9
80°	86.0	89.2	74.3	60.5	57.3
82.5°	58.4	58.4	42.5	32.9	29.7
85°	34.0	29.7	18.0	15.9	15.9
87.5°	11.7	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)