

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: P258610

Luminaire Tested: **14CZ-LD5-25-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L82765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2533.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

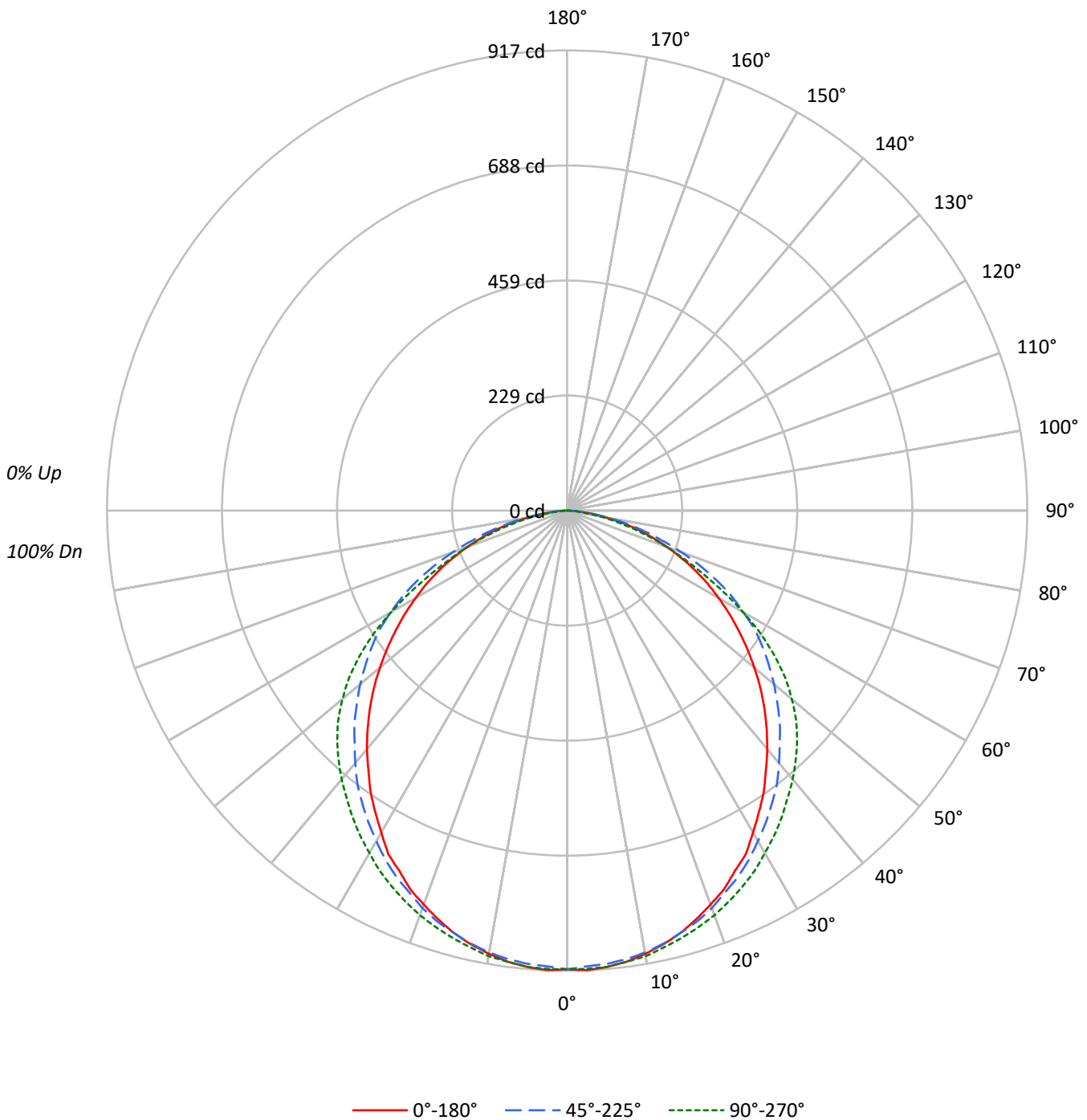
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2460	2460	2460
5°	2466	2449	2466
10°	2450	2443	2464
15°	2428	2428	2456
20°	2392	2414	2457
25°	2351	2391	2455
30°	2301	2363	2449
35°	2244	2338	2449
40°	2180	2307	2457
45°	2115	2281	2466
50°	2039	2253	2447
55°	1957	2232	2367
60°	1875	2184	2178
65°	1789	2091	1908
70°	1660	1906	1651
75°	1507	1661	1363
80°	1199	1316	1006
85°	849	732	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.4
10°-20°	247.1	9.8
20°-30°	372.5	14.7
30°-40°	446.5	17.6
40°-50°	463.4	18.3
50°-60°	418.0	16.5
60°-70°	304.9	12.0
70°-80°	160.0	6.3
80°-90°	34.1	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°	706.1	27.9
0°-40°	1152.6	45.5
0°-60°	2034.0	80.3
0°-90°	2533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	913	910	907	913	913	87
15°	872	872	872	882	882	246
25°	792	796	805	823	827	365
35°	683	691	712	738	746	427
45°	556	567	599	636	648	428
55°	417	432	476	507	504	373
65°	281	297	328	316	300	278
75°	145	165	160	139	131	152
85°	28	34	24	20	19	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.1	914.1	914.1	914.1	914.1
2.5°	916.6	914.1	909.1	914.1	914.1
5°	912.8	910.3	906.6	912.8	912.8
7.5°	906.6	904.1	901.6	907.8	906.6
10°	896.6	895.4	894.1	901.6	901.6
12.5°	885.4	885.4	884.1	892.9	891.6
15°	871.6	871.6	871.6	881.6	881.6
17.5°	854.1	856.6	859.1	870.4	870.4
20°	835.4	837.9	842.9	856.6	857.9
22.5°	816.7	817.9	822.9	839.2	842.9
25°	791.7	795.5	805.4	822.9	826.7
27.5°	771.7	773.0	784.2	804.2	809.2
30°	740.5	749.3	760.5	783.0	788.0
32.5°	711.8	719.3	736.8	760.5	768.0
35°	683.1	690.6	711.8	738.0	745.5
37.5°	650.6	661.8	686.8	713.0	721.8
40°	620.6	630.6	656.8	689.3	699.3
42.5°	588.2	598.2	626.9	663.1	674.3
45°	555.7	566.9	599.4	635.6	648.1
47.5°	522.0	534.5	568.2	608.1	619.4
50°	487.0	500.8	538.2	579.4	584.4
52.5°	452.0	467.0	507.0	543.2	548.2
55°	417.1	432.1	475.8	507.0	504.5
57.5°	383.4	399.6	444.6	460.8	458.3
60°	348.4	365.9	405.8	413.3	404.6
62.5°	315.9	332.2	369.6	363.4	352.1
65°	281.0	297.2	328.4	315.9	299.7
67.5°	246.0	266.0	286.0	264.7	252.2
70°	211.0	233.5	242.3	221.0	209.8
72.5°	177.3	201.0	198.6	177.3	169.8
75°	144.9	164.8	159.8	138.6	131.1
77.5°	109.9	132.4	121.1	103.6	97.4
80°	77.4	97.4	84.9	69.9	64.9
82.5°	51.2	64.9	52.4	41.2	37.5
85°	27.5	33.7	23.7	20.0	18.7
87.5°	11.2	10.0	8.7	8.7	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)