

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: P258607

Luminaire Tested: **14CZ-LD5-25-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258607
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2403.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

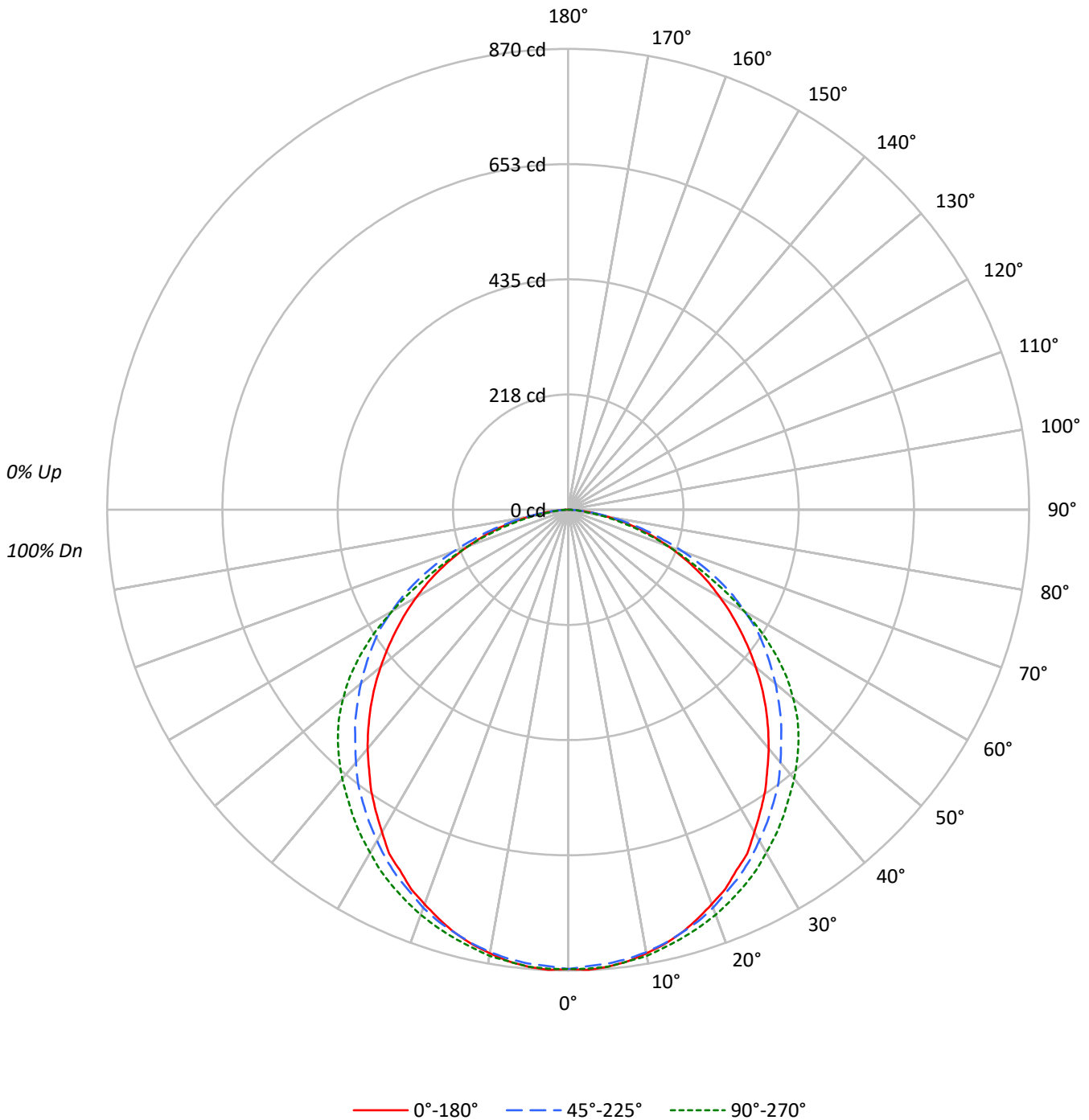
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2334	2334	2334
5°	2339	2323	2339
10°	2324	2318	2337
15°	2304	2304	2330
20°	2269	2290	2331
25°	2230	2269	2328
30°	2183	2242	2323
35°	2129	2218	2323
40°	2068	2189	2330
45°	2006	2164	2340
50°	1934	2138	2321
55°	1856	2118	2245
60°	1779	2072	2066
65°	1697	1984	1810
70°	1575	1808	1566
75°	1429	1576	1293
80°	1137	1249	955
85°	806	695	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.4
10°-20°	234.4	9.8
20°-30°	353.4	14.7
30°-40°	423.6	17.6
40°-50°	439.6	18.3
50°-60°	396.5	16.5
60°-70°	289.2	12.0
70°-80°	151.8	6.3
80°-90°	32.4	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°	669.9	27.9
0°-40°	1093.5	45.5
0°-60°	1929.6	80.3
0°-90°	2403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	866	864	860	866	866	82
15°	827	827	827	836	836	233
25°	751	755	764	781	784	347
35°	648	655	675	700	707	405
45°	527	538	569	603	615	406
55°	396	410	451	481	479	354
65°	266	282	312	300	284	263
75°	137	156	152	132	124	144
85°	26	32	22	19	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.2	867.2	867.2	867.2	867.2
2.5°	869.5	867.2	862.4	867.2	867.2
5°	866.0	863.6	860.1	866.0	866.0
7.5°	860.1	857.7	855.3	861.3	860.1
10°	850.6	849.4	848.2	855.3	855.3
12.5°	839.9	839.9	838.7	847.0	845.9
15°	826.9	826.9	826.9	836.4	836.4
17.5°	810.3	812.7	815.0	825.7	825.7
20°	792.5	794.9	799.6	812.7	813.9
22.5°	774.8	776.0	780.7	796.1	799.6
25°	751.1	754.6	764.1	780.7	784.2
27.5°	732.1	733.3	744.0	762.9	767.7
30°	702.5	710.8	721.5	742.8	747.5
32.5°	675.3	682.4	699.0	721.5	728.6
35°	648.0	655.1	675.3	700.1	707.2
37.5°	617.2	627.9	651.6	676.4	684.7
40°	588.8	598.3	623.1	653.9	663.4
42.5°	558.0	567.5	594.7	629.1	639.7
45°	527.2	537.8	568.6	603.0	614.8
47.5°	495.2	507.0	539.0	576.9	587.6
50°	462.0	475.1	510.6	549.7	554.4
52.5°	428.8	443.1	481.0	515.3	520.1
55°	395.7	409.9	451.4	481.0	478.6
57.5°	363.7	379.1	421.7	437.1	434.8
60°	330.5	347.1	385.0	392.1	383.8
62.5°	299.7	315.1	350.7	344.7	334.1
65°	266.5	282.0	311.6	299.7	284.3
67.5°	233.4	252.3	271.3	251.1	239.3
70°	200.2	221.5	229.8	209.7	199.0
72.5°	168.2	190.7	188.4	168.2	161.1
75°	137.4	156.4	151.6	131.5	124.4
77.5°	104.3	125.6	114.9	98.3	92.4
80°	73.4	92.4	80.6	66.3	61.6
82.5°	48.6	61.6	49.8	39.1	35.5
85°	26.1	32.0	22.5	19.0	17.8
87.5°	10.7	9.5	8.3	8.3	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)