

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: P258612

Luminaire Tested: **14CZ-LD5-25-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258612
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2565.0 lumens
Efficiency: N/A
Efficacy: 136.5 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

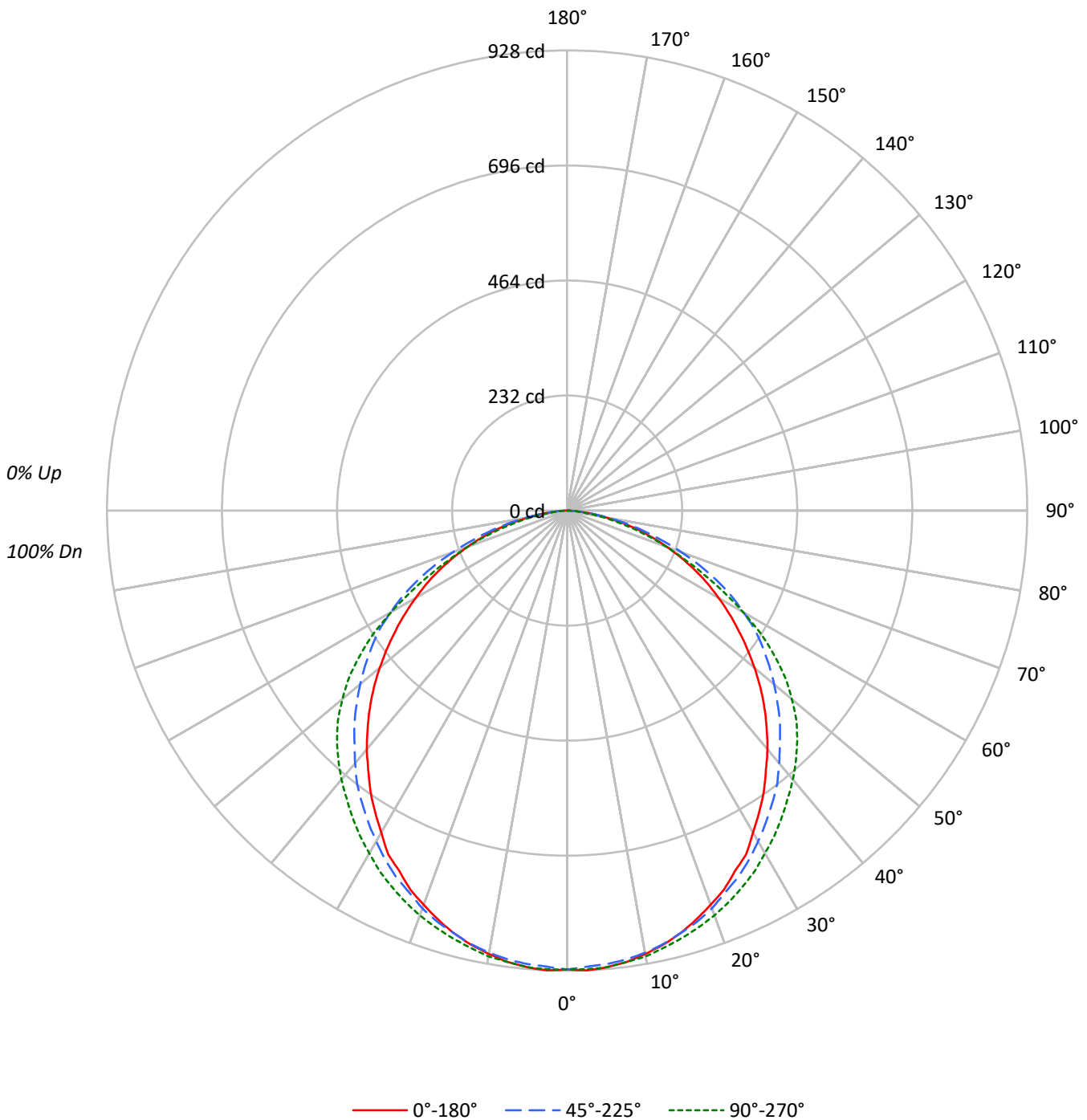
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2491	2491	2491
5°	2497	2480	2497
10°	2481	2474	2495
15°	2459	2459	2487
20°	2423	2444	2488
25°	2380	2422	2485
30°	2330	2393	2479
35°	2272	2368	2480
40°	2208	2336	2487
45°	2141	2310	2498
50°	2065	2282	2478
55°	1982	2260	2397
60°	1899	2212	2205
65°	1812	2118	1933
70°	1681	1930	1671
75°	1525	1683	1381
80°	1215	1333	1020
85°	858	741	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.4
10°-20°	250.2	9.8
20°-30°	377.2	14.7
30°-40°	452.2	17.6
40°-50°	469.3	18.3
50°-60°	423.3	16.5
60°-70°	308.7	12.0
70°-80°	162.0	6.3
80°-90°	34.5	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°	715.0	27.9
0°-40°	1167.2	45.5
0°-60°	2059.7	80.3
0°-90°	2565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	924	922	918	924	924	88
15°	883	883	883	893	893	249
25°	802	806	816	833	837	370
35°	692	699	721	747	755	432
45°	563	574	607	644	656	434
55°	422	438	482	513	511	378
65°	284	301	333	320	304	281
75°	147	167	162	140	133	154
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°	925.6	925.6	925.6	925.6	925.6
2.5°	928.2	925.6	920.6	925.6	925.6
5°	924.4	921.8	918.0	924.4	924.4
7.5°	918.0	915.5	913.0	919.3	918.0
10°	907.9	906.7	905.4	913.0	913.0
12.5°	896.6	896.6	895.3	904.1	902.9
15°	882.6	882.6	882.6	892.8	892.8
17.5°	864.9	867.5	870.0	881.4	881.4
20°	846.0	848.5	853.6	867.5	868.7
22.5°	827.0	828.3	833.3	849.8	853.6
25°	801.7	805.5	815.6	833.3	837.1
27.5°	781.5	782.7	794.1	814.4	819.4
30°	749.9	758.7	770.1	792.9	797.9
32.5°	720.8	728.4	746.1	770.1	777.7
35°	691.7	699.3	720.8	747.3	754.9
37.5°	658.8	670.2	695.5	722.0	730.9
40°	628.5	638.6	665.1	698.0	708.1
42.5°	595.6	605.7	634.8	671.5	682.8
45°	562.7	574.1	607.0	643.6	656.3
47.5°	528.6	541.2	575.4	615.8	627.2
50°	493.2	507.1	545.0	586.7	591.8
52.5°	457.8	472.9	513.4	550.1	555.1
55°	422.4	437.5	481.8	513.4	510.9
57.5°	388.2	404.6	450.2	466.6	464.1
60°	352.8	370.5	411.0	418.6	409.7
62.5°	319.9	336.4	374.3	368.0	356.6
65°	284.5	301.0	332.6	319.9	303.5
67.5°	249.1	269.3	289.6	268.1	255.4
70°	213.7	236.5	245.3	223.8	212.4
72.5°	179.6	203.6	201.1	179.6	172.0
75°	146.7	166.9	161.9	140.4	132.8
77.5°	111.3	134.0	122.7	105.0	98.6
80°	78.4	98.6	86.0	70.8	65.8
82.5°	51.8	65.8	53.1	41.7	37.9
85°	27.8	34.1	24.0	20.2	19.0
87.5°	11.4	10.1	8.9	8.9	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)