

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: P275462

Luminaire Tested: **14CZ2-25-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2498.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

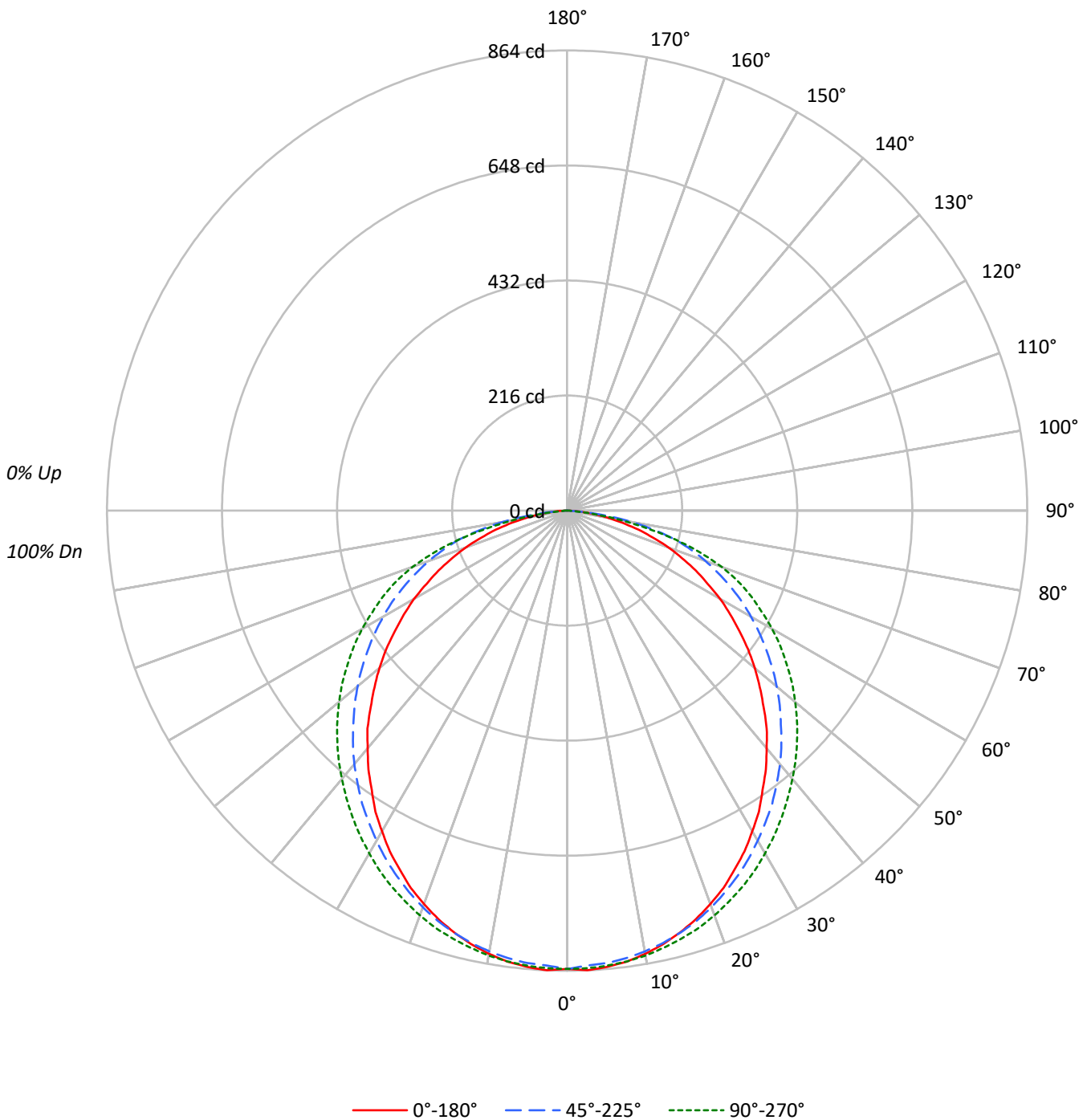
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2316	2316	2316
5°	2323	2304	2317
10°	2309	2297	2318
15°	2284	2286	2317
20°	2251	2270	2316
25°	2208	2248	2314
30°	2160	2224	2309
35°	2102	2205	2307
40°	2047	2184	2311
45°	1984	2160	2323
50°	1926	2150	2339
55°	1853	2143	2360
60°	1787	2146	2392
65°	1695	2153	2429
70°	1591	2169	2428
75°	1442	2189	2195
80°	1182	1891	1562
85°	877	895	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	3.3
10°-20°	232.6	9.3
20°-30°	350.4	14.0
30°-40°	420.5	16.8
40°-50°	438.3	17.5
50°-60°	405.7	16.2
60°-70°	327.8	13.1
70°-80°	199.9	8.0
80°-90°	41.3	1.7
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°	664.5	26.6
0°-40°	1085.0	43.4
0°-60°	1929.0	77.2
0°-90°	2498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	860	858	853	859	858	82
15°	820	820	820	832	832	231
25°	744	748	757	776	779	343
35°	640	650	671	696	702	401
45°	521	537	568	599	610	403
55°	395	416	457	492	503	354
65°	266	292	338	372	382	263
75°	139	169	210	214	211	146
85°	28	42	29	16	12	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.6	860.6	860.6	860.6	860.6
2.5°	863.9	861.1	855.0	861.1	860.0
5°	860.0	857.8	852.8	858.9	857.8
7.5°	854.4	852.2	847.8	855.0	853.9
10°	845.0	843.9	840.5	848.9	848.3
12.5°	833.8	833.3	831.6	841.1	840.5
15°	819.9	820.5	820.5	831.6	831.6
17.5°	804.3	805.4	807.7	819.9	821.6
20°	785.9	788.2	792.6	806.5	808.8
22.5°	767.0	768.7	775.3	792.1	794.3
25°	743.6	748.1	757.0	775.9	779.2
27.5°	721.3	725.2	737.5	757.0	762.5
30°	695.1	701.3	715.7	736.9	743.0
32.5°	670.1	676.8	693.5	718.0	723.5
35°	640.0	650.0	671.2	695.7	702.4
37.5°	612.7	622.2	646.1	672.9	680.7
40°	582.6	594.3	621.6	650.0	657.8
42.5°	554.8	565.9	595.4	624.4	635.0
45°	521.4	537.0	567.6	599.3	610.5
47.5°	490.7	506.3	541.4	575.4	585.4
50°	460.1	476.8	513.6	548.6	558.7
52.5°	428.3	446.2	485.7	520.8	532.5
55°	394.9	415.5	456.7	492.4	503.0
57.5°	363.2	384.3	428.3	464.5	475.1
60°	332.0	353.7	398.8	433.3	444.5
62.5°	297.4	323.1	369.8	403.8	412.2
65°	266.2	292.4	338.1	372.1	381.5
67.5°	233.4	261.8	307.5	338.7	347.6
70°	202.2	231.7	275.7	304.7	308.6
72.5°	168.8	198.8	243.4	261.8	261.8
75°	138.7	169.3	210.5	213.9	211.1
77.5°	105.8	139.8	166.5	159.9	153.2
80°	76.3	109.7	122.0	109.7	100.8
82.5°	51.2	79.7	73.5	58.5	51.8
85°	28.4	42.3	29.0	16.2	11.7
87.5°	10.6	9.5	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)