

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: P275824

Luminaire Tested: **14CZ2-39-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2508.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

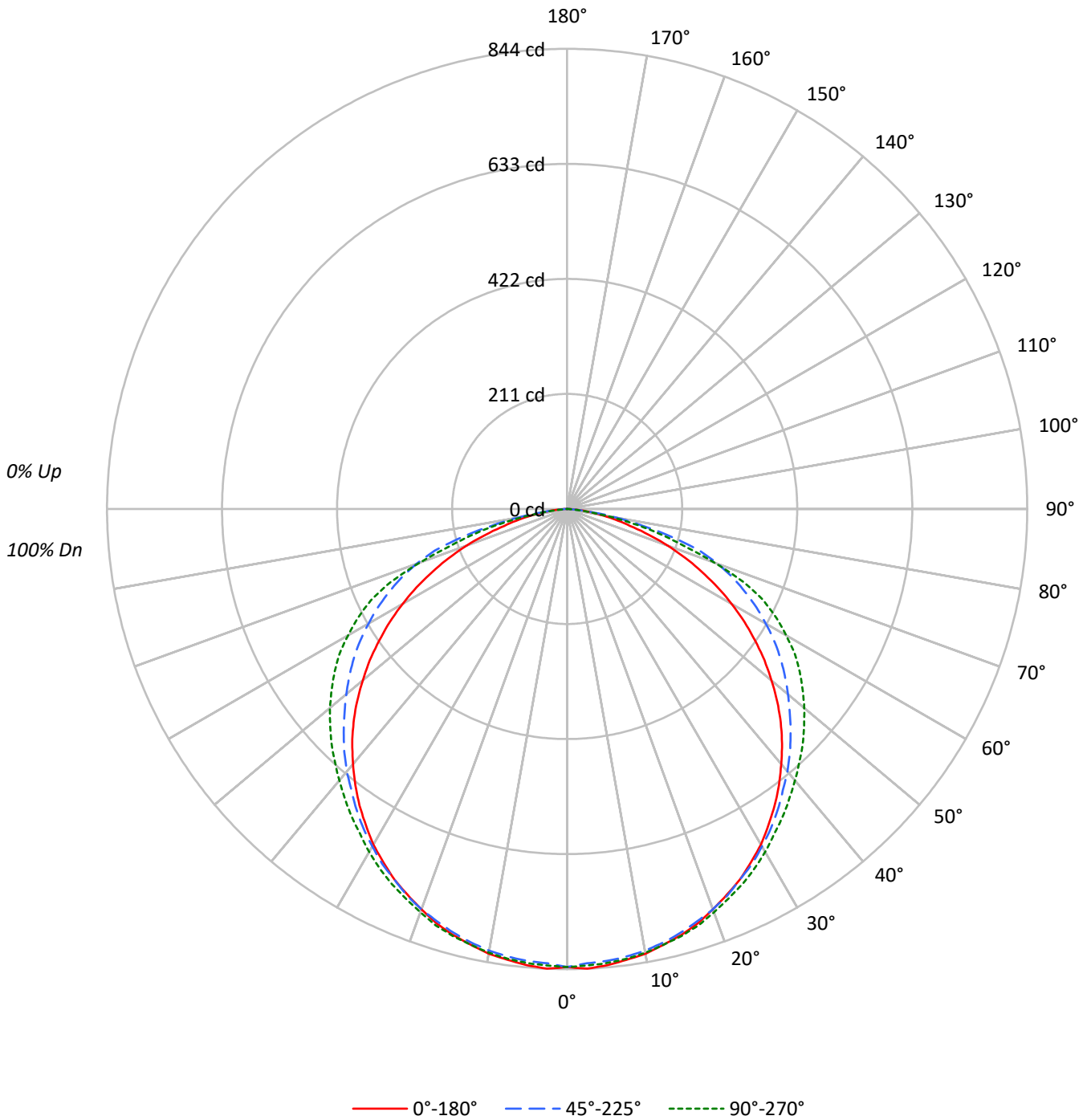
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2260	2260	2260
5°	2269	2248	2259
10°	2263	2247	2258
15°	2253	2242	2258
20°	2237	2237	2254
25°	2227	2227	2256
30°	2209	2221	2257
35°	2181	2213	2264
40°	2146	2208	2284
45°	2109	2206	2325
50°	2049	2213	2377
55°	1975	2242	2443
60°	1876	2266	2498
65°	1733	2294	2531
70°	1541	2311	2264
75°	1241	2076	1812
80°	972	1457	1184
85°	664	423	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	3.2
10°-20°	228.1	9.1
20°-30°	347.3	13.8
30°-40°	423.1	16.9
40°-50°	448.8	17.9
50°-60°	423.6	16.9
60°-70°	342.0	13.6
70°-80°	185.5	7.4
80°-90°	30.0	1.2
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°	655.0	26.1
0°-40°	1078.0	43.0
0°-60°	1950.4	77.8
0°-90°	2508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	840	838	832	838	836	80
15°	809	807	805	811	811	228
25°	750	748	750	758	760	345
35°	664	668	674	687	689	415
45°	554	562	580	601	611	427
55°	421	439	478	509	521	376
65°	272	306	360	390	398	270
75°	119	174	200	180	174	130
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	840.0	840.0	840.0	840.0	840.0
2.5°	843.9	840.0	834.1	840.0	838.0
5°	840.0	838.0	832.2	838.0	836.1
7.5°	834.1	834.1	828.2	832.2	832.2
10°	828.2	826.3	822.4	828.2	826.3
12.5°	818.5	816.5	814.5	820.4	818.5
15°	808.7	806.7	804.7	810.6	810.6
17.5°	796.9	795.0	793.0	800.8	800.8
20°	781.3	781.3	781.3	789.1	787.1
22.5°	765.6	765.6	767.5	775.4	773.4
25°	749.9	748.0	749.9	757.8	759.7
27.5°	730.3	732.3	734.3	742.1	744.0
30°	710.8	712.7	714.7	724.5	726.4
32.5°	687.3	691.2	695.1	706.8	706.8
35°	663.8	667.7	673.6	687.3	689.2
37.5°	638.3	642.2	650.1	665.7	669.6
40°	610.9	616.8	628.5	644.2	650.1
42.5°	583.5	591.3	605.0	622.7	630.5
45°	554.1	562.0	579.6	601.1	610.9
47.5°	522.8	532.6	554.1	581.5	589.4
50°	489.5	503.2	528.7	558.0	567.8
52.5°	456.2	471.9	503.2	534.5	544.3
55°	421.0	438.6	477.8	509.1	520.8
57.5°	385.7	405.3	450.3	483.6	495.4
60°	348.5	372.0	421.0	454.3	464.1
62.5°	311.3	338.7	391.6	424.9	432.7
65°	272.2	305.5	360.3	389.6	397.5
67.5°	235.0	274.1	328.9	350.5	350.5
70°	195.8	238.9	293.7	299.6	287.8
72.5°	156.6	205.6	254.5	233.0	223.2
75°	119.4	174.3	199.7	180.1	174.3
77.5°	90.1	141.0	141.0	129.2	125.3
80°	62.7	107.7	94.0	82.2	76.4
82.5°	41.1	60.7	49.0	39.2	33.3
85°	21.5	23.5	13.7	11.7	9.8
87.5°	7.8	3.9	2.0	3.9	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)