

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: P275828

Luminaire Tested: **14CZ2-39-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275828
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2581.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

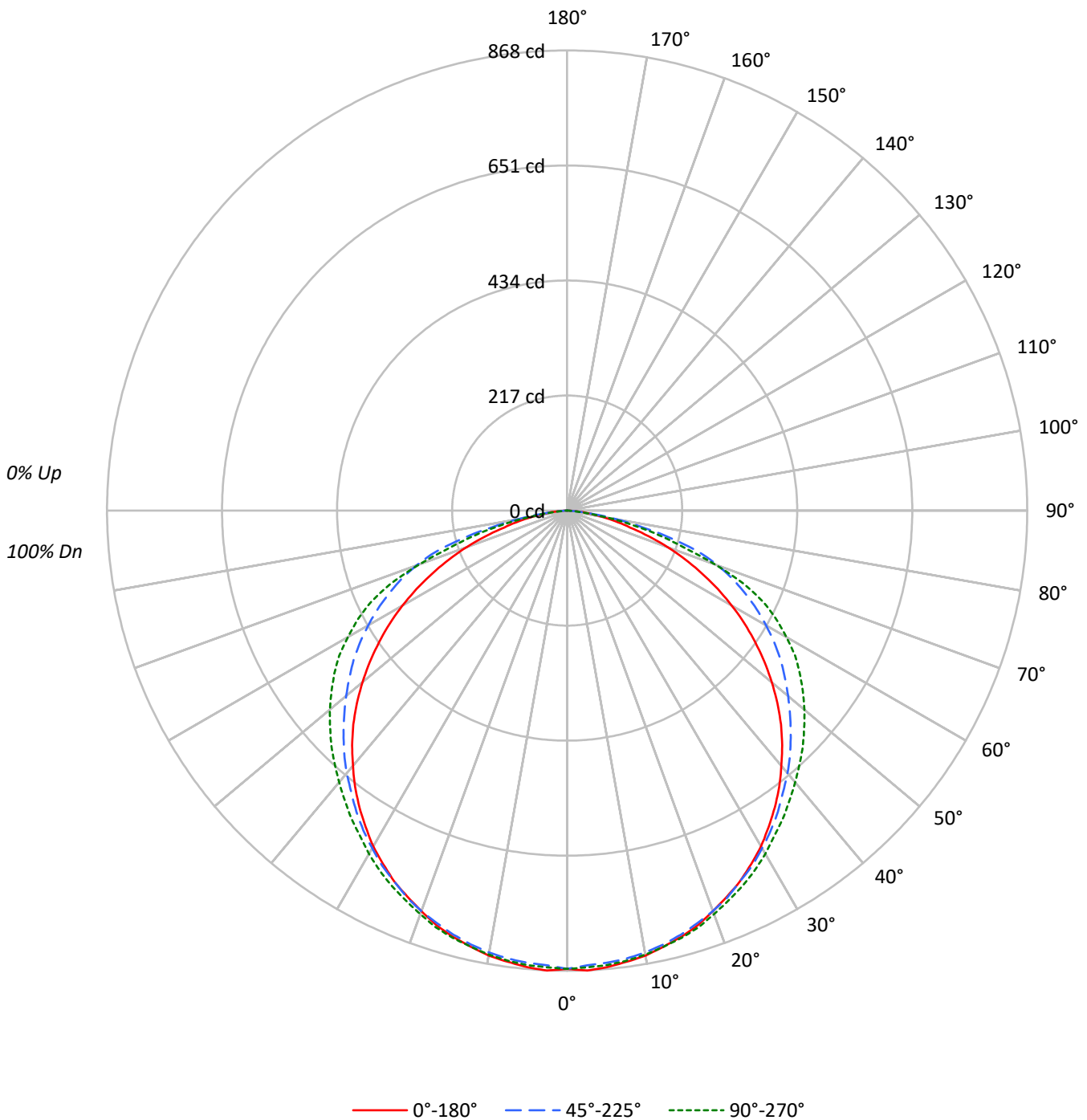
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2326	2326	2326
5°	2335	2313	2324
10°	2329	2313	2323
15°	2318	2307	2324
20°	2302	2302	2320
25°	2292	2292	2321
30°	2273	2285	2323
35°	2244	2277	2330
40°	2209	2272	2350
45°	2170	2270	2393
50°	2109	2278	2447
55°	2032	2307	2515
60°	1931	2331	2570
65°	1784	2361	2604
70°	1585	2378	2330
75°	1278	2137	1864
80°	1000	1499	1218
85°	685	435	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.2
10°-20°	234.7	9.1
20°-30°	357.4	13.8
30°-40°	435.4	16.9
40°-50°	461.9	17.9
50°-60°	435.9	16.9
60°-70°	352.0	13.6
70°-80°	190.9	7.4
80°-90°	30.9	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°	674.0	26.1
0°-40°	1109.4	43.0
0°-60°	2007.2	77.8
0°-90°	2581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	864	862	856	862	860	82
15°	832	830	828	834	834	235
25°	772	770	772	780	782	355
35°	683	687	693	707	709	427
45°	570	578	596	619	629	439
55°	433	451	492	524	536	387
65°	280	314	371	401	409	278
75°	123	179	206	185	179	134
85°	22	24	14	12	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.4	864.4	864.4	864.4	864.4
2.5°	868.5	864.4	858.4	864.4	862.4
5°	864.4	862.4	856.4	862.4	860.4
7.5°	858.4	858.4	852.4	856.4	856.4
10°	852.4	850.3	846.3	852.4	850.3
12.5°	842.3	840.3	838.2	844.3	842.3
15°	832.2	830.2	828.2	834.2	834.2
17.5°	820.1	818.1	816.1	824.1	824.1
20°	804.0	804.0	804.0	812.1	810.0
22.5°	787.9	787.9	789.9	797.9	795.9
25°	771.8	769.7	771.8	779.8	781.8
27.5°	751.6	753.6	755.6	763.7	765.7
30°	731.5	733.5	735.5	745.6	747.6
32.5°	707.3	711.3	715.3	727.4	727.4
35°	683.1	687.1	693.2	707.3	709.3
37.5°	656.9	660.9	669.0	685.1	689.1
40°	628.7	634.7	646.8	662.9	669.0
42.5°	600.5	608.5	622.6	640.8	648.8
45°	570.3	578.3	596.4	618.6	628.7
47.5°	538.0	548.1	570.3	598.5	606.5
50°	503.8	517.9	544.1	574.3	584.4
52.5°	469.5	485.6	517.9	550.1	560.2
55°	433.2	451.4	491.7	523.9	536.0
57.5°	397.0	417.1	463.5	497.7	509.8
60°	358.7	382.9	433.2	467.5	477.6
62.5°	320.4	348.6	403.0	437.3	445.3
65°	280.1	314.3	370.8	401.0	409.0
67.5°	241.8	282.1	338.5	360.7	360.7
70°	201.5	245.8	302.3	308.3	296.2
72.5°	161.2	211.6	262.0	239.8	229.7
75°	122.9	179.3	205.5	185.4	179.3
77.5°	92.7	145.1	145.1	133.0	129.0
80°	64.5	110.8	96.7	84.6	78.6
82.5°	42.3	62.5	50.4	40.3	34.3
85°	22.2	24.2	14.1	12.1	10.1
87.5°	8.1	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)