

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: P275826

Luminaire Tested: **14CZ2-39-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275826
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-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2567.0 lumens
Efficiency: N/A
Efficacy: 80.7 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

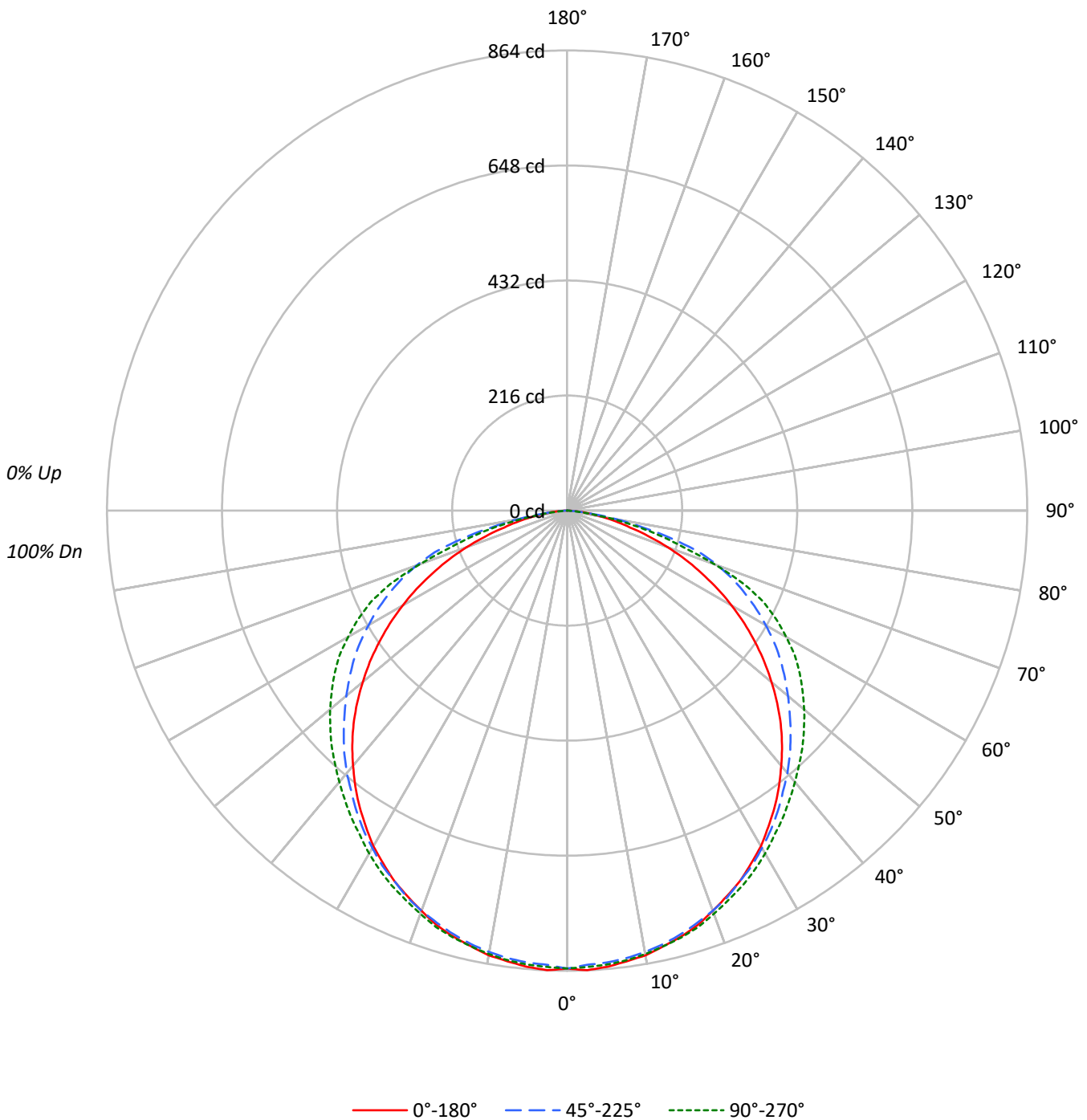
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275826

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P275826

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-5500K

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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2314	2314	2314
5°	2323	2301	2311
10°	2316	2300	2311
15°	2306	2295	2311
20°	2290	2290	2307
25°	2279	2279	2309
30°	2261	2273	2310
35°	2232	2265	2317
40°	2197	2260	2337
45°	2159	2257	2380
50°	2097	2265	2433
55°	2022	2294	2501
60°	1920	2319	2556
65°	1774	2348	2590
70°	1577	2365	2318
75°	1271	2125	1855
80°	993	1491	1212
85°	679	432	309



TEST NUMBER: P275826

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	3.2
10°-20°	233.5	9.1
20°-30°	355.5	13.8
30°-40°	433.0	16.9
40°-50°	459.4	17.9
50°-60°	433.6	16.9
60°-70°	350.1	13.6
70°-80°	189.9	7.4
80°-90°	30.7	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°	670.4	26.1
0°-40°	1103.4	43.0
0°-60°	1996.3	77.8
0°-90°	2567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	860	858	852	858	856	82
15°	828	826	824	830	830	234
25°	768	766	768	776	778	353
35°	679	683	689	703	705	425
45°	567	575	593	615	625	437
55°	431	449	489	521	533	385
65°	279	313	369	399	407	276
75°	122	178	204	184	178	134
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



TEST NUMBER: P275826

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.8	859.8	859.8	859.8	859.8
2.5°	863.8	859.8	853.7	859.8	857.7
5°	859.8	857.7	851.7	857.7	855.7
7.5°	853.7	853.7	847.7	851.7	851.7
10°	847.7	845.7	841.7	847.7	845.7
12.5°	837.7	835.7	833.7	839.7	837.7
15°	827.7	825.7	823.7	829.7	829.7
17.5°	815.7	813.7	811.7	819.7	819.7
20°	799.6	799.6	799.6	807.6	805.6
22.5°	783.6	783.6	785.6	793.6	791.6
25°	767.6	765.6	767.6	775.6	777.6
27.5°	747.5	749.5	751.5	759.5	761.6
30°	727.5	729.5	731.5	741.5	743.5
32.5°	703.4	707.4	711.5	723.5	723.5
35°	679.4	683.4	689.4	703.4	705.4
37.5°	653.3	657.3	665.4	681.4	685.4
40°	625.3	631.3	643.3	659.3	665.4
42.5°	597.2	605.2	619.3	637.3	645.3
45°	567.2	575.2	593.2	615.3	625.3
47.5°	535.1	545.1	567.2	595.2	603.2
50°	501.0	515.1	541.1	571.2	581.2
52.5°	467.0	483.0	515.1	547.1	557.1
55°	430.9	448.9	489.0	521.1	533.1
57.5°	394.8	414.8	460.9	495.0	507.0
60°	356.7	380.8	430.9	464.9	475.0
62.5°	318.7	346.7	400.8	434.9	442.9
65°	278.6	312.6	368.8	398.8	406.8
67.5°	240.5	280.6	336.7	358.7	358.7
70°	200.4	244.5	300.6	306.6	294.6
72.5°	160.3	210.4	260.5	238.5	228.5
75°	122.2	178.4	204.4	184.4	178.4
77.5°	92.2	144.3	144.3	132.3	128.3
80°	64.1	110.2	96.2	84.2	78.2
82.5°	42.1	62.1	50.1	40.1	34.1
85°	22.0	24.0	14.0	12.0	10.0
87.5°	8.0	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)