

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: P275823

Luminaire Tested: **14CZ2-39-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275823
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-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2464.0 lumens
Efficiency: N/A
Efficacy: 78.6 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

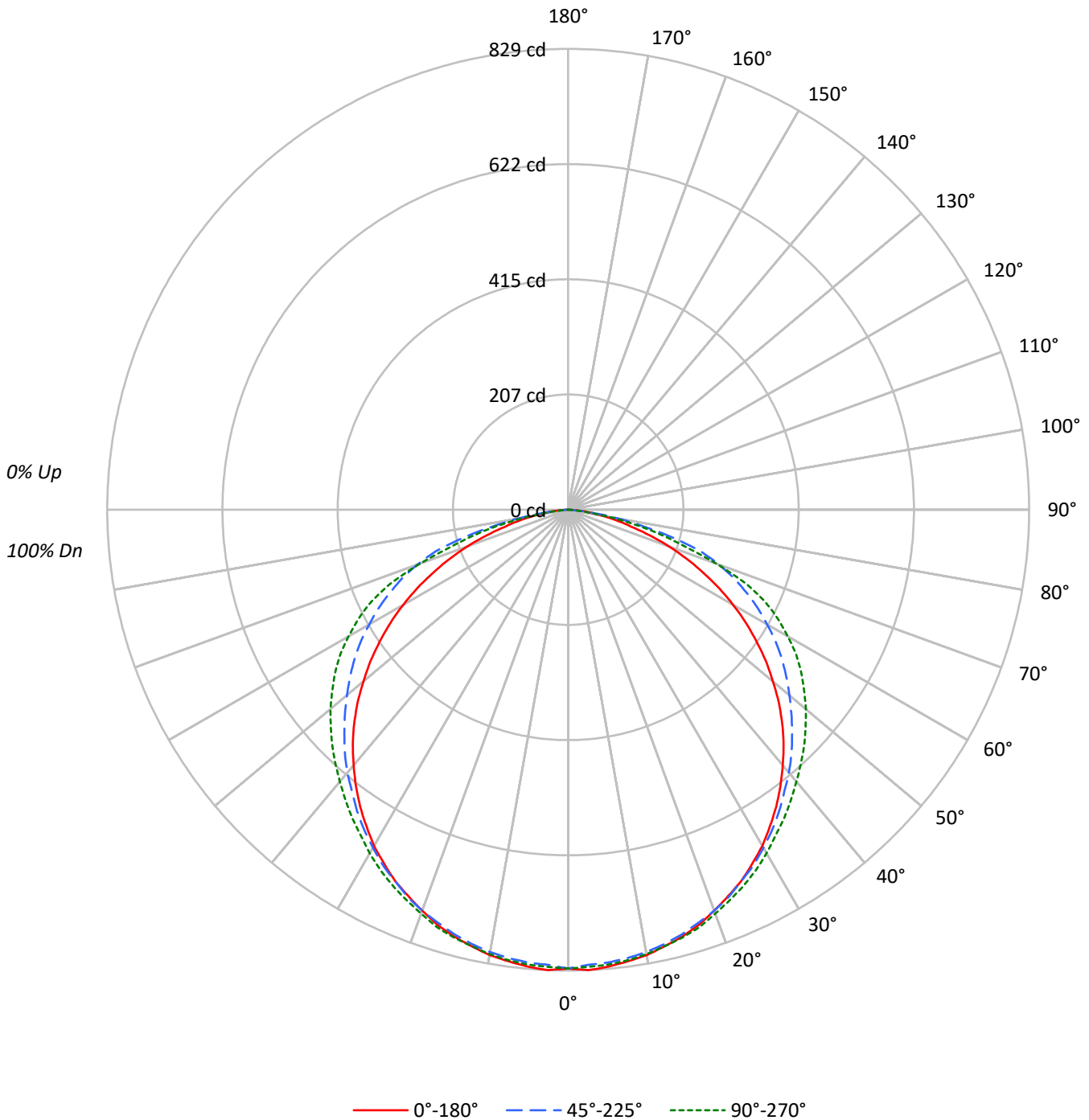
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275823

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P275823

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-4000K

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°	2221	2221	2221
5°	2229	2209	2219
10°	2223	2208	2218
15°	2213	2203	2219
20°	2198	2198	2214
25°	2188	2188	2216
30°	2170	2182	2218
35°	2142	2174	2224
40°	2108	2169	2244
45°	2072	2167	2284
50°	2013	2174	2336
55°	1940	2202	2401
60°	1843	2226	2454
65°	1703	2254	2486
70°	1514	2271	2225
75°	1220	2040	1780
80°	955	1430	1162
85°	655	417	296



TEST NUMBER: P275823

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.2
10°-20°	224.1	9.1
20°-30°	341.2	13.8
30°-40°	415.6	16.9
40°-50°	441.0	17.9
50°-60°	416.2	16.9
60°-70°	336.0	13.6
70°-80°	182.3	7.4
80°-90°	29.5	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°	643.5	26.1
0°-40°	1059.1	43.0
0°-60°	1916.2	77.8
0°-90°	2464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	825	823	818	823	821	78
15°	794	793	791	796	796	224
25°	737	735	737	744	746	339
35°	652	656	662	675	677	408
45°	544	552	569	591	600	419
55°	414	431	469	500	512	369
65°	267	300	354	383	390	265
75°	117	171	196	177	171	128
85°	21	23	14	12	10	27
90°	0	0	0	0	0	



TEST NUMBER: P275823

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.3	825.3	825.3	825.3	825.3
2.5°	829.1	825.3	819.5	825.3	823.3
5°	825.3	823.3	817.6	823.3	821.4
7.5°	819.5	819.5	813.7	817.6	817.6
10°	813.7	811.8	807.9	813.7	811.8
12.5°	804.1	802.2	800.2	806.0	804.1
15°	794.5	792.6	790.6	796.4	796.4
17.5°	782.9	781.0	779.1	786.8	786.8
20°	767.5	767.5	767.5	775.2	773.3
22.5°	752.2	752.2	754.1	761.8	759.9
25°	736.8	734.8	736.8	744.5	746.4
27.5°	717.5	719.5	721.4	729.1	731.0
30°	698.3	700.2	702.1	711.8	713.7
32.5°	675.2	679.1	682.9	694.4	694.4
35°	652.1	656.0	661.7	675.2	677.1
37.5°	627.1	631.0	638.7	654.0	657.9
40°	600.2	606.0	617.5	632.9	638.7
42.5°	573.3	580.9	594.4	611.7	619.4
45°	544.4	552.1	569.4	590.6	600.2
47.5°	513.6	523.2	544.4	571.3	579.0
50°	480.9	494.4	519.4	548.2	557.9
52.5°	448.2	463.6	494.4	525.2	534.8
55°	413.6	430.9	469.4	500.2	511.7
57.5°	379.0	398.2	442.4	475.1	486.7
60°	342.4	365.5	413.6	446.3	455.9
62.5°	305.9	332.8	384.7	417.4	425.1
65°	267.4	300.1	354.0	382.8	390.5
67.5°	230.8	269.3	323.2	344.3	344.3
70°	192.4	234.7	288.6	294.3	282.8
72.5°	153.9	202.0	250.1	228.9	219.3
75°	117.3	171.2	196.2	177.0	171.2
77.5°	88.5	138.5	138.5	127.0	123.1
80°	61.6	105.8	92.3	80.8	75.0
82.5°	40.4	59.6	48.1	38.5	32.7
85°	21.2	23.1	13.5	11.5	9.6
87.5°	7.7	3.8	1.9	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)