

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: P275880

Luminaire Tested: **14CZ2-39-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275880
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2317.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

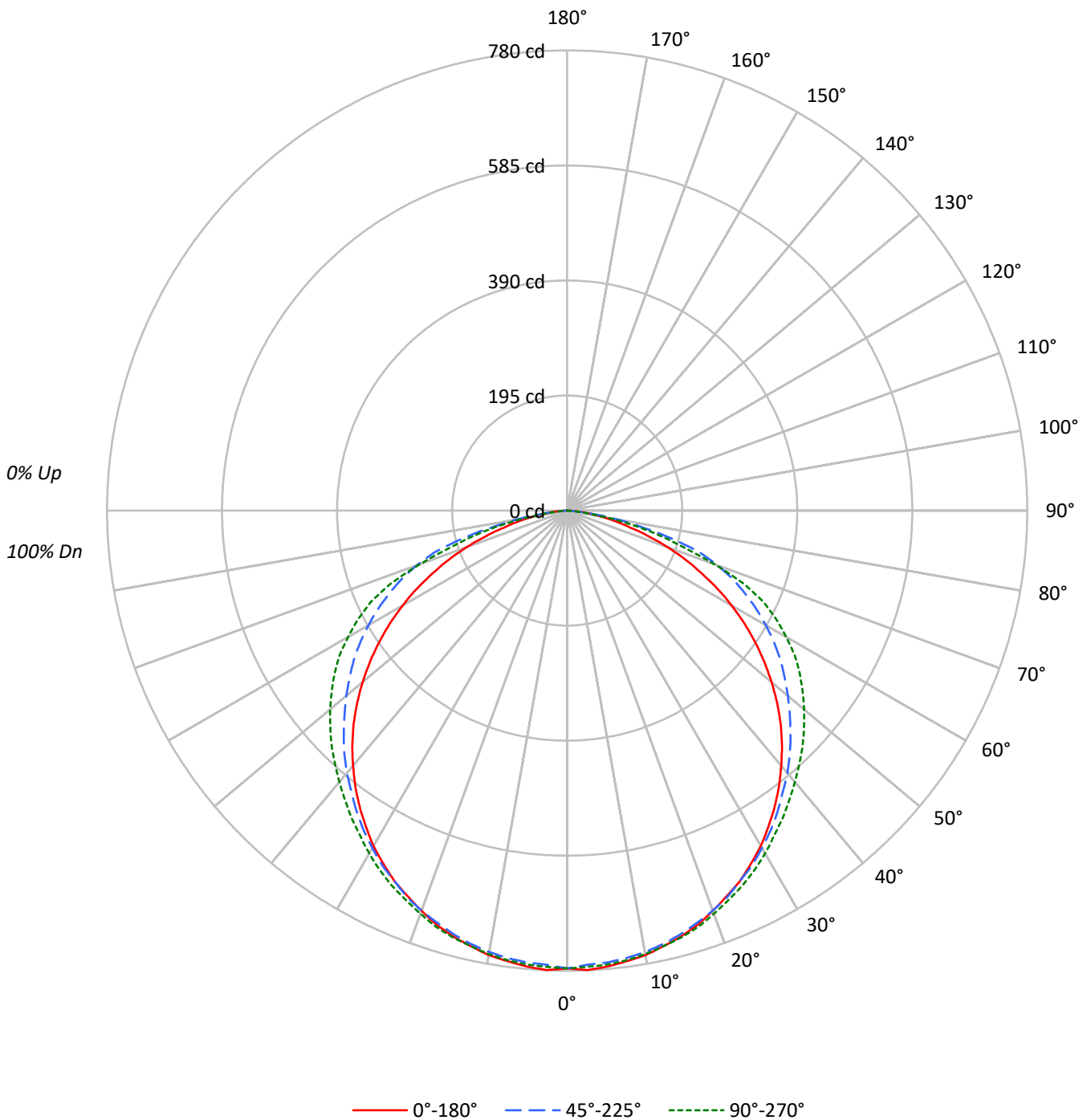
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275880

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P275880

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L92765-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	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°	2088	2088	2088
5°	2096	2077	2086
10°	2091	2076	2086
15°	2081	2071	2086
20°	2067	2067	2082
25°	2057	2057	2084
30°	2040	2052	2085
35°	2014	2044	2092
40°	1983	2040	2110
45°	1948	2038	2148
50°	1893	2045	2196
55°	1825	2071	2258
60°	1733	2093	2307
65°	1601	2119	2338
70°	1423	2135	2092
75°	1147	1918	1674
80°	897	1345	1093
85°	614	392	278



TEST NUMBER: P275880

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.2
10°-20°	210.7	9.1
20°-30°	320.9	13.8
30°-40°	390.8	16.9
40°-50°	414.6	17.9
50°-60°	391.3	16.9
60°-70°	316.0	13.6
70°-80°	171.4	7.4
80°-90°	27.7	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°	605.1	26.1
0°-40°	995.9	43.0
0°-60°	1801.9	77.8
0°-90°	2317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	776	774	769	774	772	74
15°	747	745	744	749	749	211
25°	693	691	693	700	702	319
35°	613	617	622	635	637	383
45°	512	519	535	555	564	394
55°	389	405	441	470	481	347
65°	251	282	333	360	367	249
75°	110	161	184	166	161	121
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



TEST NUMBER: P275880

CATALOG NUMBER: 14CZ2-39-RDP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.0	776.0	776.0	776.0	776.0
2.5°	779.6	776.0	770.6	776.0	774.2
5°	776.0	774.2	768.8	774.2	772.4
7.5°	770.6	770.6	765.2	768.8	768.8
10°	765.2	763.4	759.7	765.2	763.4
12.5°	756.1	754.3	752.5	757.9	756.1
15°	747.1	745.3	743.5	748.9	748.9
17.5°	736.2	734.4	732.6	739.8	739.8
20°	721.8	721.8	721.8	729.0	727.2
22.5°	707.3	707.3	709.1	716.3	714.5
25°	692.8	691.0	692.8	700.0	701.9
27.5°	674.7	676.5	678.3	685.6	687.4
30°	656.6	658.4	660.3	669.3	671.1
32.5°	634.9	638.5	642.2	653.0	653.0
35°	613.2	616.8	622.3	634.9	636.7
37.5°	589.7	593.3	600.6	615.0	618.6
40°	564.4	569.8	580.7	595.1	600.6
42.5°	539.1	546.3	559.0	575.2	582.5
45°	511.9	519.2	535.4	555.3	564.4
47.5°	483.0	492.0	511.9	537.2	544.5
50°	452.2	464.9	488.4	515.5	524.6
52.5°	421.5	435.9	464.9	493.8	502.9
55°	388.9	405.2	441.4	470.3	481.2
57.5°	356.4	374.4	416.0	446.8	457.7
60°	322.0	343.7	388.9	419.7	428.7
62.5°	287.6	312.9	361.8	392.5	399.8
65°	251.4	282.2	332.8	360.0	367.2
67.5°	217.1	253.2	303.9	323.8	323.8
70°	180.9	220.7	271.3	276.8	265.9
72.5°	144.7	189.9	235.2	215.3	206.2
75°	110.3	161.0	184.5	166.4	161.0
77.5°	83.2	130.2	130.2	119.4	115.8
80°	57.9	99.5	86.8	76.0	70.5
82.5°	38.0	56.1	45.2	36.2	30.8
85°	19.9	21.7	12.7	10.9	9.0
87.5°	7.2	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)