

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: P275780

Luminaire Tested: **14CZ2-44-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275780
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: 14CZ2-44-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2346.0 lumens
Efficiency: N/A
Efficacy: 64.7 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

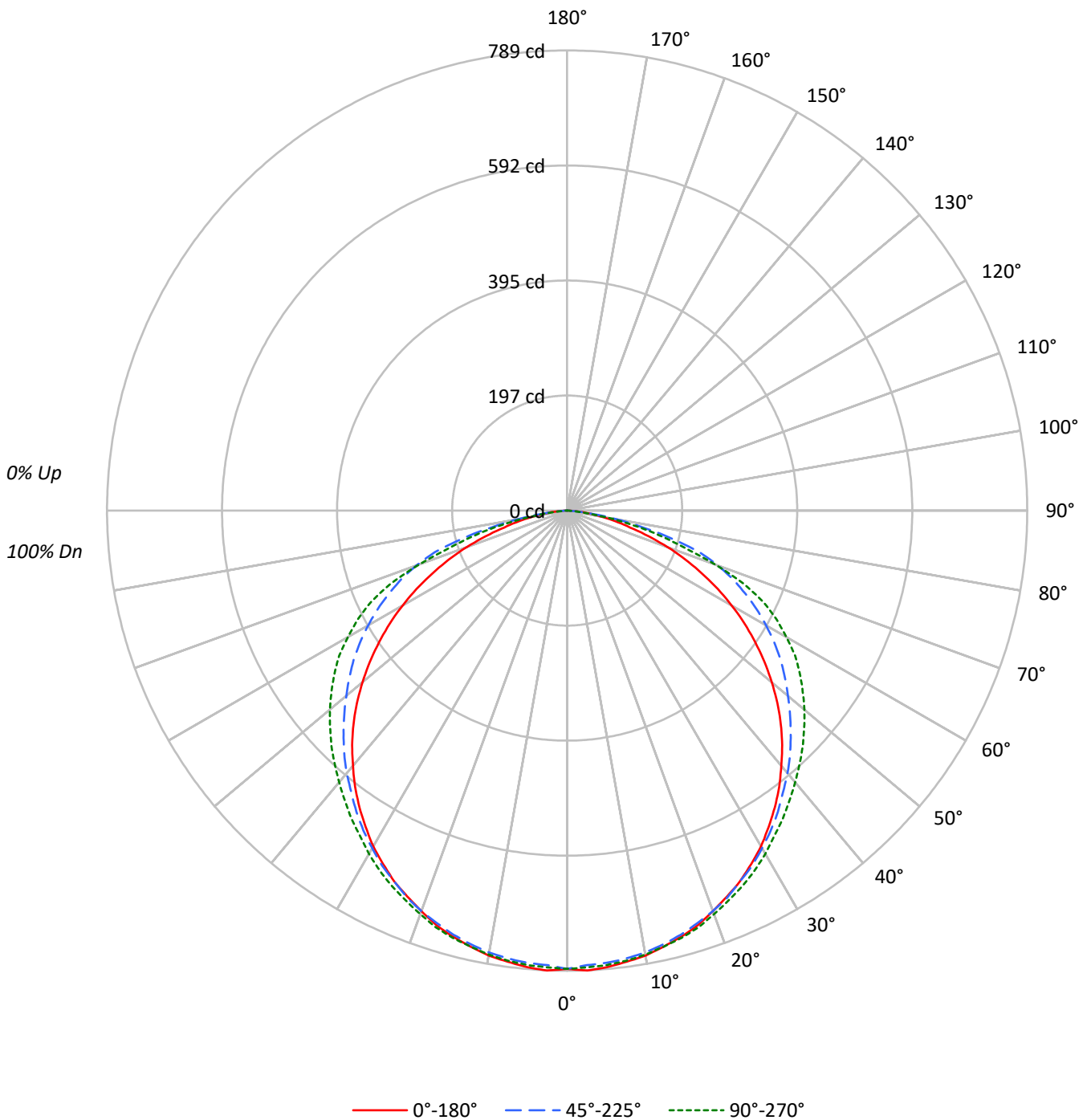
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2114	2114	2114
5°	2122	2103	2113
10°	2117	2102	2112
15°	2107	2097	2113
20°	2093	2093	2109
25°	2083	2083	2110
30°	2066	2077	2111
35°	2040	2070	2118
40°	2007	2065	2136
45°	1972	2063	2175
50°	1917	2070	2223
55°	1848	2097	2286
60°	1755	2119	2336
65°	1621	2146	2367
70°	1441	2161	2118
75°	1161	1942	1695
80°	908	1362	1106
85°	621	395	284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.2
10°-20°	213.4	9.1
20°-30°	324.9	13.8
30°-40°	395.7	16.9
40°-50°	419.8	17.9
50°-60°	396.2	16.9
60°-70°	319.9	13.6
70°-80°	173.5	7.4
80°-90°	28.1	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°	612.6	26.1
0°-40°	1008.4	43.0
0°-60°	1824.4	77.8
0°-90°	2346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	786	784	778	784	782	75
15°	756	755	753	758	758	213
25°	702	700	702	709	711	323
35°	621	625	630	643	645	388
45°	518	526	542	562	571	399
55°	394	410	447	476	487	352
65°	255	286	337	364	372	252
75°	112	163	187	168	163	122
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	785.7	785.7	785.7	785.7	785.7
2.5°	789.4	785.7	780.2	785.7	783.9
5°	785.7	783.9	778.4	783.9	782.1
7.5°	780.2	780.2	774.7	778.4	778.4
10°	774.7	772.9	769.3	774.7	772.9
12.5°	765.6	763.8	761.9	767.4	765.6
15°	756.4	754.6	752.8	758.3	758.3
17.5°	745.4	743.6	741.8	749.1	749.1
20°	730.8	730.8	730.8	738.1	736.3
22.5°	716.1	716.1	718.0	725.3	723.5
25°	701.5	699.7	701.5	708.8	710.6
27.5°	683.2	685.0	686.8	694.2	696.0
30°	664.9	666.7	668.5	677.7	679.5
32.5°	642.9	646.5	650.2	661.2	661.2
35°	620.9	624.6	630.1	642.9	644.7
37.5°	597.1	600.7	608.1	622.7	626.4
40°	571.4	576.9	587.9	602.6	608.1
42.5°	545.8	553.1	565.9	582.4	589.8
45°	518.3	525.7	542.1	562.3	571.4
47.5°	489.0	498.2	518.3	544.0	551.3
50°	457.9	470.7	494.5	522.0	531.1
52.5°	426.8	441.4	470.7	500.0	509.2
55°	393.8	410.3	446.9	476.2	487.2
57.5°	360.8	379.1	421.3	452.4	463.4
60°	326.0	348.0	393.8	424.9	434.1
62.5°	291.2	316.9	366.3	397.4	404.8
65°	254.6	285.7	337.0	364.5	371.8
67.5°	219.8	256.4	307.7	327.8	327.8
70°	183.2	223.4	274.7	280.2	269.2
72.5°	146.5	192.3	238.1	218.0	208.8
75°	111.7	163.0	186.8	168.5	163.0
77.5°	84.3	131.9	131.9	120.9	117.2
80°	58.6	100.7	87.9	76.9	71.4
82.5°	38.5	56.8	45.8	36.6	31.1
85°	20.1	22.0	12.8	11.0	9.2
87.5°	7.3	3.7	1.8	3.7	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)