

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: P275741

Luminaire Tested: **14CZ2-35-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275741
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: 14CZ2-35-RDP-UNV-L83050-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: 2349.0 lumens
Efficiency: N/A
Efficacy: 83.6 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

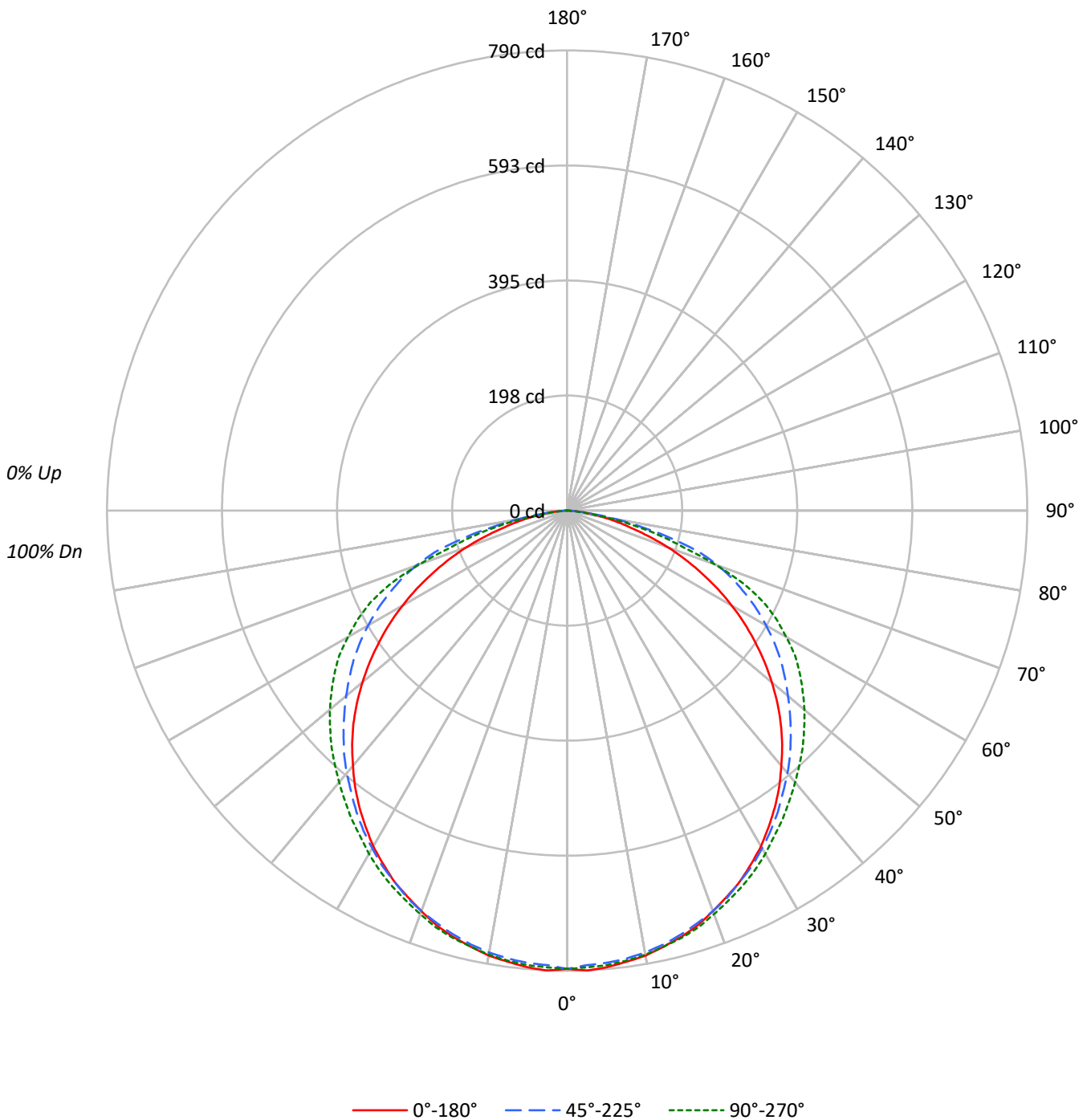
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2117	2117	2117
5°	2125	2105	2115
10°	2120	2105	2115
15°	2110	2100	2115
20°	2095	2095	2111
25°	2086	2086	2113
30°	2069	2080	2114
35°	2042	2073	2121
40°	2010	2068	2139
45°	1975	2066	2178
50°	1919	2073	2226
55°	1850	2099	2289
60°	1757	2122	2339
65°	1623	2148	2371
70°	1443	2164	2121
75°	1163	1945	1697
80°	910	1364	1108
85°	624	395	284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.2
10°-20°	213.6	9.1
20°-30°	325.3	13.8
30°-40°	396.2	16.9
40°-50°	420.4	17.9
50°-60°	396.8	16.9
60°-70°	320.3	13.6
70°-80°	173.8	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°	613.4	26.1
0°-40°	1009.7	43.0
0°-60°	1826.8	77.8
0°-90°	2349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	787	785	779	785	783	75
15°	757	756	754	759	759	214
25°	702	700	702	710	712	323
35°	622	625	631	644	646	389
45°	519	526	543	563	572	400
55°	394	411	448	477	488	352
65°	255	286	337	365	372	253
75°	112	163	187	169	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°	786.7	786.7	786.7	786.7	786.7
2.5°	790.4	786.7	781.2	786.7	784.9
5°	786.7	784.9	779.4	784.9	783.1
7.5°	781.2	781.2	775.7	779.4	779.4
10°	775.7	773.9	770.2	775.7	773.9
12.5°	766.6	764.7	762.9	768.4	766.6
15°	757.4	755.6	753.7	759.2	759.2
17.5°	746.4	744.6	742.7	750.1	750.1
20°	731.7	731.7	731.7	739.1	737.2
22.5°	717.1	717.1	718.9	726.2	724.4
25°	702.4	700.5	702.4	709.7	711.6
27.5°	684.0	685.9	687.7	695.0	696.9
30°	665.7	667.5	669.4	678.5	680.4
32.5°	643.7	647.4	651.0	662.0	662.0
35°	621.7	625.4	630.9	643.7	645.5
37.5°	597.8	601.5	608.9	623.5	627.2
40°	572.2	577.7	588.7	603.4	608.9
42.5°	546.5	553.8	566.7	583.2	590.5
45°	519.0	526.3	542.8	563.0	572.2
47.5°	489.6	498.8	519.0	544.7	552.0
50°	458.5	471.3	495.2	522.7	531.8
52.5°	427.3	442.0	471.3	500.7	509.8
55°	394.3	410.8	447.5	476.8	487.8
57.5°	361.3	379.6	421.8	453.0	464.0
60°	326.4	348.4	394.3	425.5	434.6
62.5°	291.6	317.3	366.8	398.0	405.3
65°	254.9	286.1	337.4	364.9	372.3
67.5°	220.1	256.7	308.1	328.3	328.3
70°	183.4	223.7	275.1	280.6	269.6
72.5°	146.7	192.6	238.4	218.2	209.1
75°	111.9	163.2	187.1	168.7	163.2
77.5°	84.4	132.0	132.0	121.0	117.4
80°	58.7	100.9	88.0	77.0	71.5
82.5°	38.5	56.9	45.8	36.7	31.2
85°	20.2	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)