

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: P275743

Luminaire Tested: **14CZ2-35-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275743
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2371.0 lumens
Efficiency: N/A
Efficacy: 82.5 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

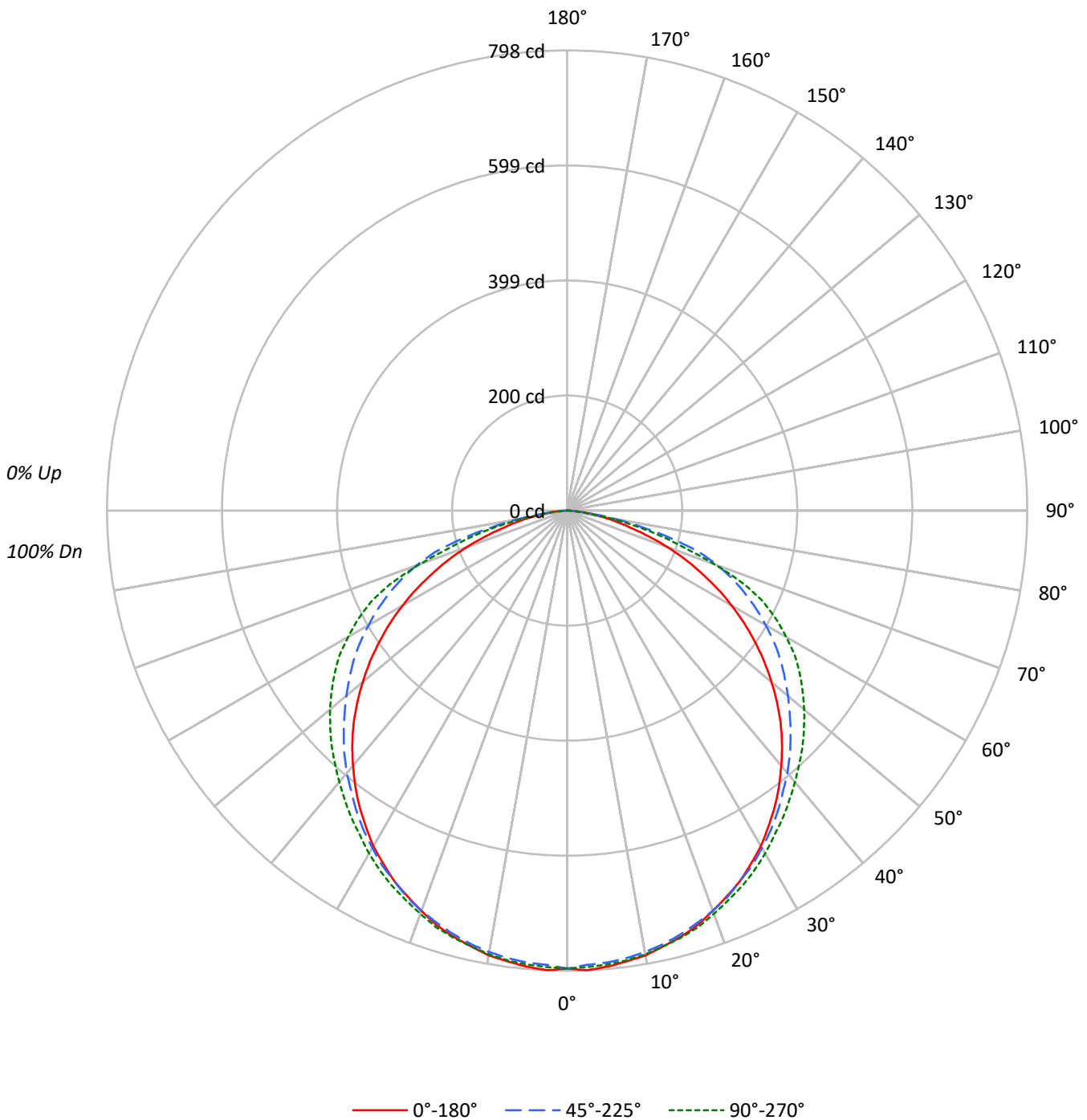
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2137	2137	2137
5°	2145	2125	2135
10°	2140	2124	2135
15°	2130	2120	2135
20°	2115	2115	2131
25°	2105	2105	2132
30°	2088	2099	2134
35°	2061	2092	2141
40°	2029	2087	2159
45°	1994	2085	2198
50°	1937	2092	2247
55°	1867	2119	2310
60°	1773	2142	2361
65°	1638	2169	2393
70°	1456	2185	2141
75°	1174	1963	1712
80°	917	1378	1119
85°	630	401	287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.2
10°-20°	215.6	9.1
20°-30°	328.4	13.8
30°-40°	399.9	16.9
40°-50°	424.3	17.9
50°-60°	400.5	16.9
60°-70°	323.3	13.6
70°-80°	175.4	7.4
80°-90°	28.4	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°	619.2	26.1
0°-40°	1019.1	43.0
0°-60°	1843.9	77.8
0°-90°	2371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	794	792	787	792	790	75
15°	764	763	761	766	766	216
25°	709	707	709	716	718	326
35°	628	631	637	650	652	392
45°	524	531	548	568	578	403
55°	398	415	452	481	492	356
65°	257	289	341	368	376	255
75°	113	165	189	170	165	123
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°	794.1	794.1	794.1	794.1	794.1
2.5°	797.8	794.1	788.6	794.1	792.3
5°	794.1	792.3	786.7	792.3	790.4
7.5°	788.6	788.6	783.0	786.7	786.7
10°	783.0	781.2	777.4	783.0	781.2
12.5°	773.7	771.9	770.0	775.6	773.7
15°	764.5	762.6	760.8	766.3	766.3
17.5°	753.4	751.5	749.7	757.1	757.1
20°	738.6	738.6	738.6	746.0	744.1
22.5°	723.8	723.8	725.6	733.0	731.2
25°	709.0	707.1	709.0	716.4	718.2
27.5°	690.4	692.3	694.2	701.6	703.4
30°	671.9	673.8	675.6	684.9	686.7
32.5°	649.7	653.4	657.1	668.2	668.2
35°	627.5	631.2	636.8	649.7	651.6
37.5°	603.4	607.2	614.6	629.4	633.1
40°	577.5	583.1	594.2	609.0	614.6
42.5°	551.6	559.0	572.0	588.6	596.0
45°	523.9	531.3	547.9	568.3	577.5
47.5°	494.2	503.5	523.9	549.8	557.2
50°	462.8	475.7	499.8	527.6	536.8
52.5°	431.3	446.1	475.7	505.3	514.6
55°	398.0	414.6	451.7	481.3	492.4
57.5°	364.7	383.2	425.7	457.2	468.3
60°	329.5	351.7	398.0	429.4	438.7
62.5°	294.3	320.2	370.2	401.7	409.1
65°	257.3	288.8	340.6	368.4	375.8
67.5°	222.1	259.1	311.0	331.3	331.3
70°	185.1	225.8	277.7	283.2	272.1
72.5°	148.1	194.4	240.6	220.3	211.0
75°	112.9	164.7	188.8	170.3	164.7
77.5°	85.1	133.3	133.3	122.2	118.5
80°	59.2	101.8	88.9	77.7	72.2
82.5°	38.9	57.4	46.3	37.0	31.5
85°	20.4	22.2	13.0	11.1	9.3
87.5°	7.4	3.7	1.9	3.7	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)