

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: P275731

Luminaire Tested: **14CZ2-25-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275731
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: 14CZ2-25-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: 1635.0 lumens
Efficiency: N/A
Efficacy: 87.5 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

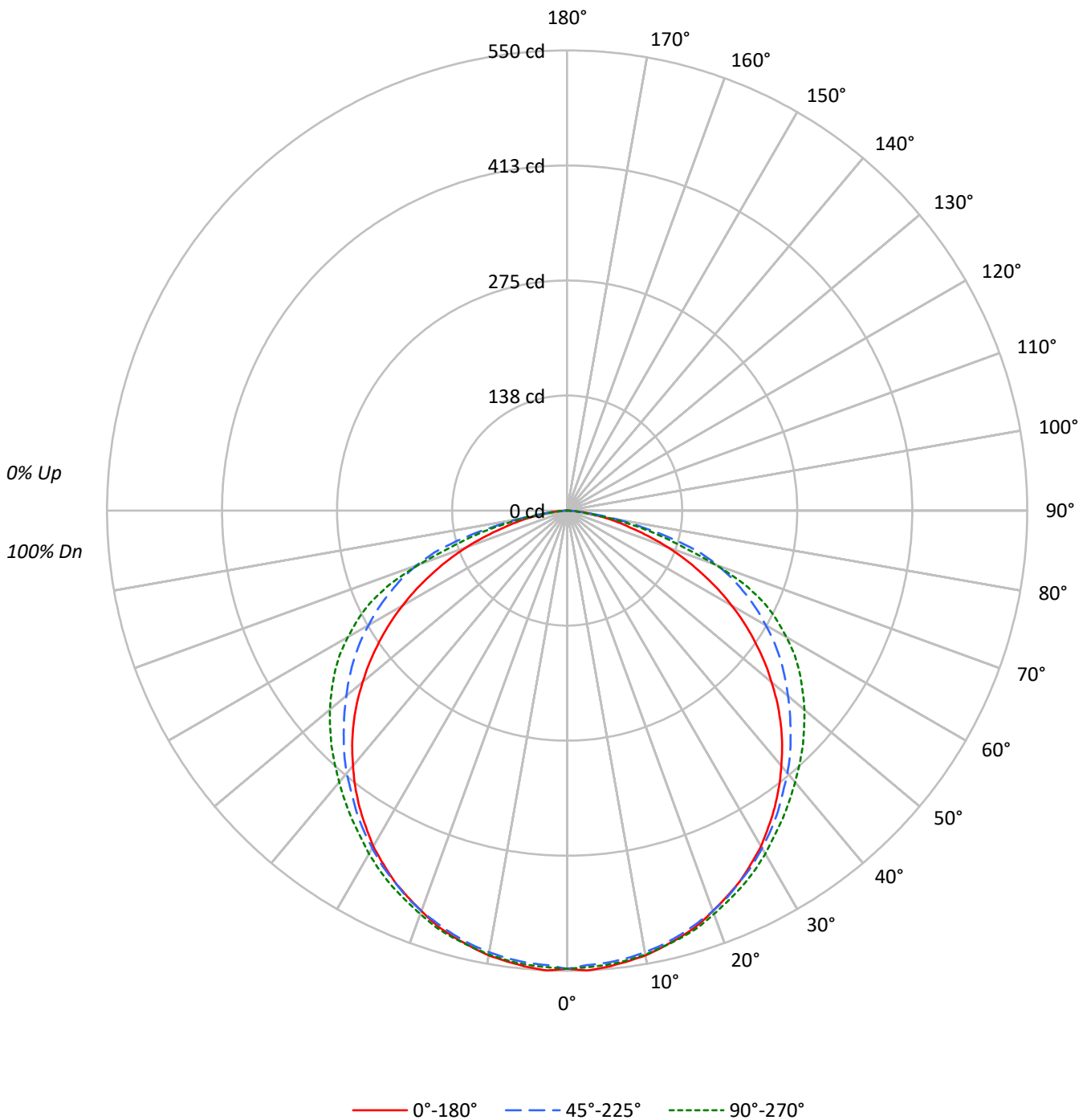
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1474	1474	1474
5°	1479	1465	1472
10°	1475	1465	1472
15°	1469	1461	1472
20°	1458	1458	1469
25°	1452	1452	1471
30°	1440	1448	1472
35°	1421	1442	1476
40°	1399	1439	1489
45°	1375	1438	1516
50°	1336	1443	1550
55°	1287	1461	1593
60°	1223	1477	1628
65°	1130	1496	1650
70°	1004	1507	1476
75°	810	1354	1181
80°	632	950	772
85°	432	275	198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	3.2
10°-20°	148.7	9.1
20°-30°	226.4	13.8
30°-40°	275.8	16.9
40°-50°	292.6	17.9
50°-60°	276.1	16.9
60°-70°	223.0	13.6
70°-80°	120.9	7.4
80°-90°	19.6	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°	427.0	26.1
0°-40°	702.8	43.0
0°-60°	1271.5	77.8
0°-90°	1635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	548	546	542	546	545	52
15°	527	526	525	528	528	149
25°	489	488	489	494	495	225
35°	433	435	439	448	449	271
45°	361	366	378	392	398	278
55°	274	286	312	332	340	245
65°	177	199	235	254	259	176
75°	78	114	130	117	114	85
85°	14	15	9	8	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	547.6	547.6	547.6	547.6	547.6
2.5°	550.2	547.6	543.8	547.6	546.3
5°	547.6	546.3	542.5	546.3	545.1
7.5°	543.8	543.8	539.9	542.5	542.5
10°	539.9	538.7	536.1	539.9	538.7
12.5°	533.6	532.3	531.0	534.8	533.6
15°	527.2	525.9	524.6	528.5	528.5
17.5°	519.5	518.2	517.0	522.1	522.1
20°	509.3	509.3	509.3	514.4	513.1
22.5°	499.1	499.1	500.4	505.5	504.2
25°	488.9	487.6	488.9	494.0	495.3
27.5°	476.1	477.4	478.7	483.8	485.1
30°	463.4	464.6	465.9	472.3	473.6
32.5°	448.0	450.6	453.1	460.8	460.8
35°	432.7	435.3	439.1	448.0	449.3
37.5°	416.1	418.7	423.8	434.0	436.6
40°	398.3	402.1	409.7	420.0	423.8
42.5°	380.4	385.5	394.4	405.9	411.0
45°	361.2	366.3	377.8	391.9	398.3
47.5°	340.8	347.2	361.2	379.1	384.2
50°	319.1	328.1	344.6	363.8	370.2
52.5°	297.4	307.6	328.1	348.5	354.9
55°	274.4	285.9	311.5	331.9	339.5
57.5°	251.5	264.2	293.6	315.3	322.9
60°	227.2	242.5	274.4	296.1	302.5
62.5°	203.0	220.8	255.3	277.0	282.1
65°	177.4	199.1	234.9	254.0	259.1
67.5°	153.2	178.7	214.4	228.5	228.5
70°	127.6	155.7	191.5	195.3	187.6
72.5°	102.1	134.0	165.9	151.9	145.5
75°	77.9	113.6	130.2	117.4	113.6
77.5°	58.7	91.9	91.9	84.2	81.7
80°	40.8	70.2	61.3	53.6	49.8
82.5°	26.8	39.6	31.9	25.5	21.7
85°	14.0	15.3	8.9	7.7	6.4
87.5°	5.1	2.6	1.3	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)