

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: P275732

Luminaire Tested: **14CZ2-25-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275732
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1650.0 lumens
Efficiency: N/A
Efficacy: 86.1 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

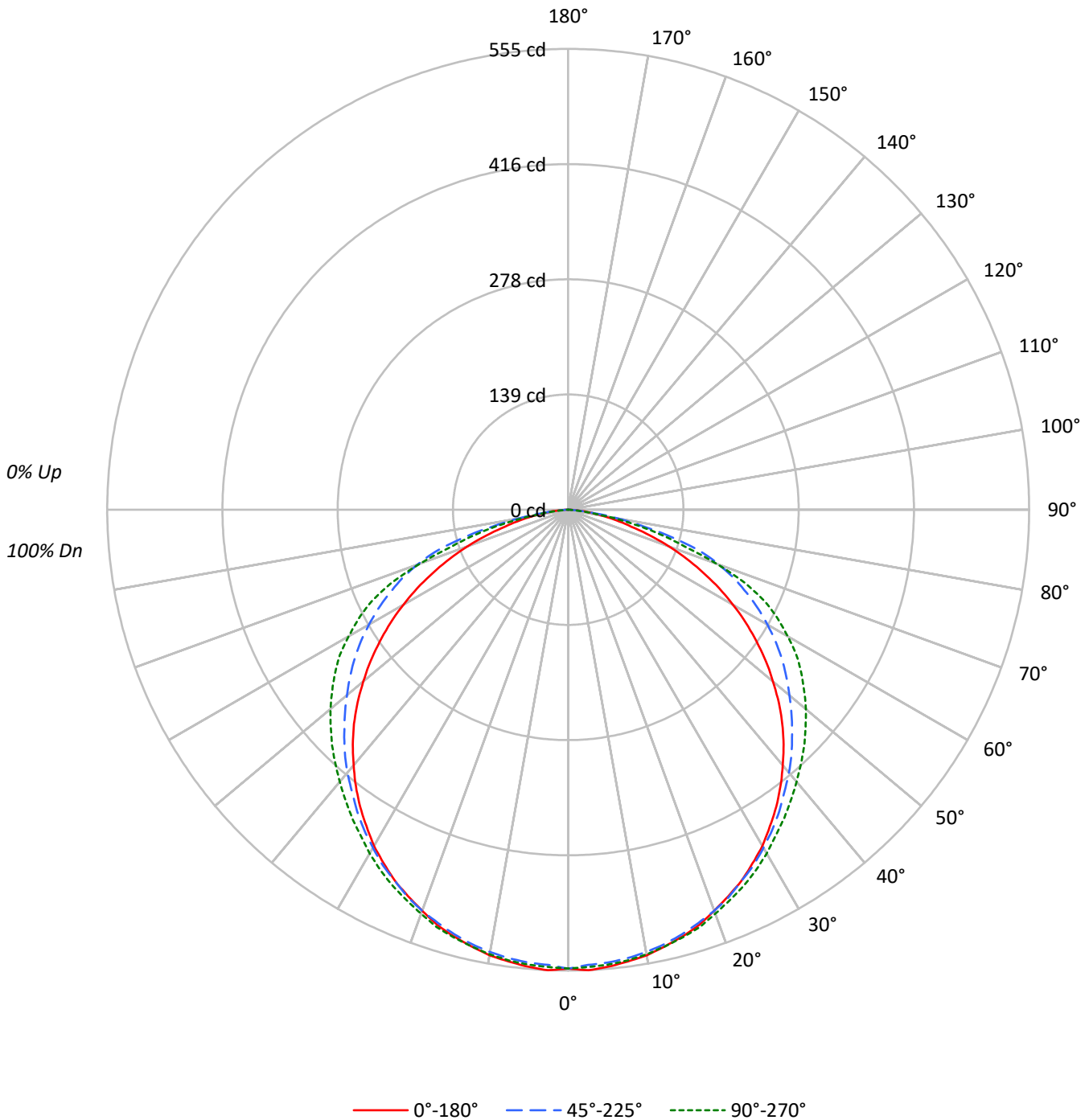
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1487	1487	1487
5°	1493	1479	1486
10°	1489	1478	1485
15°	1482	1475	1486
20°	1472	1472	1483
25°	1465	1465	1484
30°	1453	1461	1485
35°	1435	1456	1489
40°	1412	1453	1502
45°	1388	1451	1529
50°	1348	1456	1564
55°	1300	1475	1608
60°	1234	1491	1643
65°	1140	1509	1665
70°	1013	1520	1490
75°	817	1366	1192
80°	638	958	778
85°	438	278	198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	3.2
10°-20°	150.1	9.1
20°-30°	228.5	13.8
30°-40°	278.3	16.9
40°-50°	295.3	17.9
50°-60°	278.7	16.9
60°-70°	225.0	13.6
70°-80°	122.1	7.4
80°-90°	19.8	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°	430.9	26.1
0°-40°	709.2	43.0
0°-60°	1283.2	77.8
0°-90°	1650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	553	553	553	553	553	
5°	553	551	548	551	550	52
15°	532	531	529	533	533	150
25°	493	492	493	498	500	227
35°	437	439	443	452	453	273
45°	365	370	381	396	402	281
55°	277	289	314	335	343	247
65°	179	201	237	256	262	177
75°	79	115	131	118	115	86
85°	14	16	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°	552.6	552.6	552.6	552.6	552.6
2.5°	555.2	552.6	548.8	552.6	551.3
5°	552.6	551.3	547.5	551.3	550.1
7.5°	548.8	548.8	544.9	547.5	547.5
10°	544.9	543.6	541.0	544.9	543.6
12.5°	538.5	537.2	535.9	539.7	538.5
15°	532.0	530.7	529.4	533.3	533.3
17.5°	524.3	523.0	521.7	526.9	526.9
20°	514.0	514.0	514.0	519.1	517.8
22.5°	503.7	503.7	505.0	510.1	508.8
25°	493.4	492.1	493.4	498.5	499.8
27.5°	480.5	481.8	483.1	488.2	489.5
30°	467.6	468.9	470.2	476.6	477.9
32.5°	452.1	454.7	457.3	465.0	465.0
35°	436.7	439.3	443.1	452.1	453.4
37.5°	419.9	422.5	427.7	438.0	440.6
40°	401.9	405.8	413.5	423.8	427.7
42.5°	383.9	389.0	398.0	409.6	414.8
45°	364.6	369.7	381.3	395.5	401.9
47.5°	343.9	350.4	364.6	382.6	387.7
50°	322.0	331.1	347.8	367.1	373.6
52.5°	300.1	310.5	331.1	351.7	358.1
55°	277.0	288.6	314.3	334.9	342.7
57.5°	253.8	266.7	296.3	318.2	325.9
60°	229.3	244.8	277.0	298.9	305.3
62.5°	204.8	222.9	257.6	279.5	284.7
65°	179.1	201.0	237.0	256.3	261.5
67.5°	154.6	180.3	216.4	230.6	230.6
70°	128.8	157.2	193.2	197.1	189.4
72.5°	103.1	135.3	167.5	153.3	146.9
75°	78.6	114.6	131.4	118.5	114.6
77.5°	59.3	92.7	92.7	85.0	82.4
80°	41.2	70.8	61.8	54.1	50.2
82.5°	27.1	39.9	32.2	25.8	21.9
85°	14.2	15.5	9.0	7.7	6.4
87.5°	5.2	2.6	1.3	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)