

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: P275727

Luminaire Tested: **14CZ2-20-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275727
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: 14CZ2-20-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: 1414.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

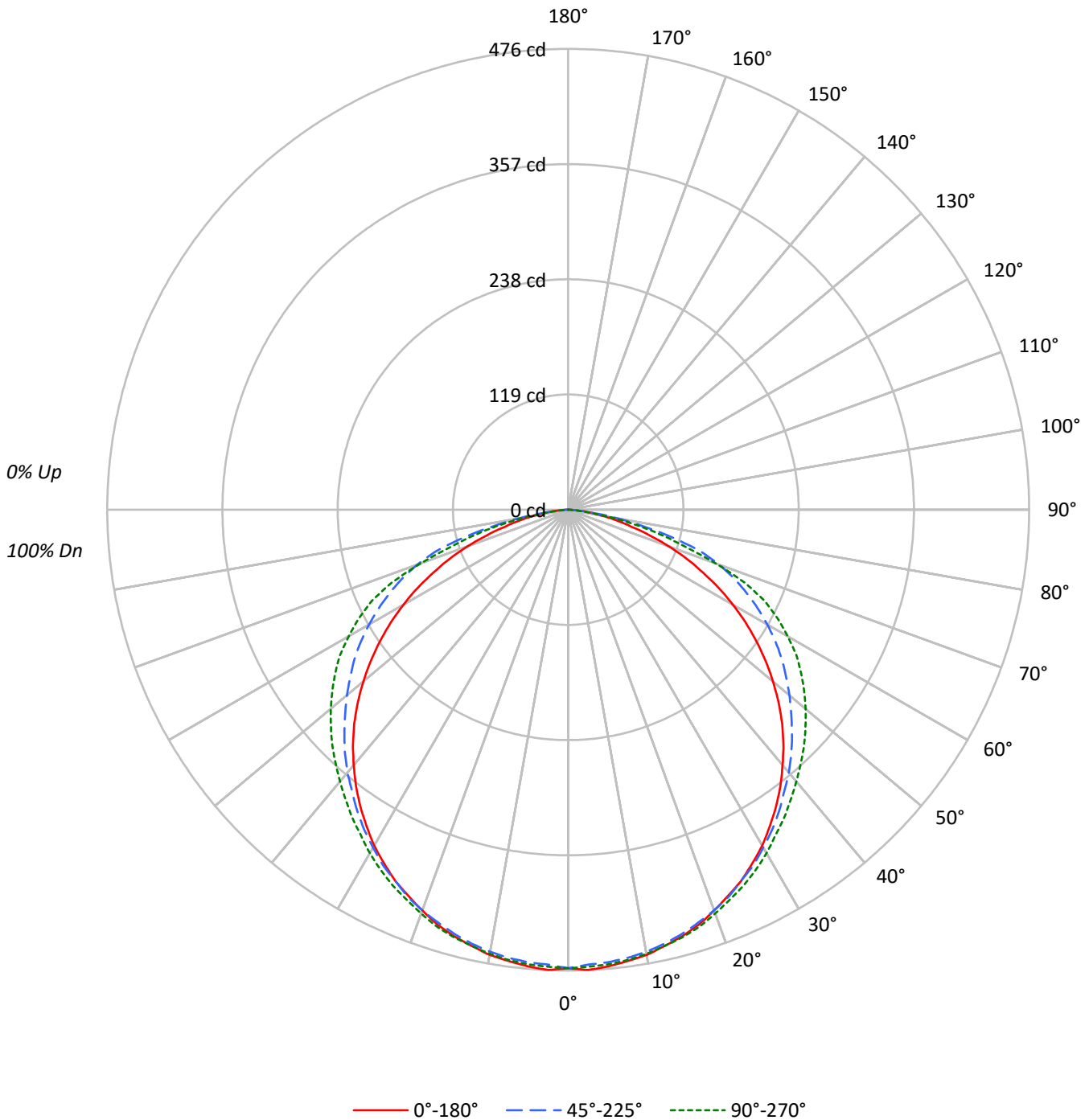
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1274	1274	1274
5°	1279	1267	1273
10°	1276	1267	1273
15°	1270	1264	1273
20°	1261	1261	1271
25°	1255	1255	1272
30°	1245	1252	1273
35°	1229	1248	1277
40°	1210	1245	1287
45°	1189	1244	1311
50°	1155	1248	1340
55°	1113	1264	1377
60°	1058	1277	1408
65°	977	1293	1427
70°	869	1303	1277
75°	700	1171	1021
80°	547	821	668
85°	374	238	170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	3.2
10°-20°	128.6	9.1
20°-30°	195.8	13.8
30°-40°	238.5	16.9
40°-50°	253.0	17.9
50°-60°	238.8	16.9
60°-70°	192.8	13.6
70°-80°	104.6	7.4
80°-90°	16.9	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°	369.3	26.1
0°-40°	607.8	43.0
0°-60°	1099.6	77.8
0°-90°	1414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	474	472	469	472	471	45
15°	456	455	454	457	457	129
25°	423	422	423	427	428	195
35°	374	376	380	388	389	234
45°	312	317	327	339	344	241
55°	237	247	269	287	294	212
65°	153	172	203	220	224	152
75°	67	98	113	102	98	74
85°	12	13	8	7	6	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	473.6	473.6	473.6	473.6	473.6
2.5°	475.8	473.6	470.3	473.6	472.5
5°	473.6	472.5	469.2	472.5	471.4
7.5°	470.3	470.3	467.0	469.2	469.2
10°	467.0	465.9	463.6	467.0	465.9
12.5°	461.4	460.3	459.2	462.5	461.4
15°	455.9	454.8	453.7	457.0	457.0
17.5°	449.3	448.2	447.1	451.5	451.5
20°	440.5	440.5	440.5	444.9	443.8
22.5°	431.6	431.6	432.7	437.2	436.1
25°	422.8	421.7	422.8	427.2	428.3
27.5°	411.8	412.9	414.0	418.4	419.5
30°	400.7	401.8	402.9	408.5	409.6
32.5°	387.5	389.7	391.9	398.5	398.5
35°	374.2	376.4	379.8	387.5	388.6
37.5°	359.9	362.1	366.5	375.3	377.5
40°	344.4	347.7	354.4	363.2	366.5
42.5°	329.0	333.4	341.1	351.0	355.5
45°	312.4	316.8	326.8	338.9	344.4
47.5°	294.7	300.3	312.4	327.9	332.3
50°	276.0	283.7	298.1	314.6	320.1
52.5°	257.2	266.0	283.7	301.4	306.9
55°	237.3	247.3	269.4	287.0	293.6
57.5°	217.5	228.5	253.9	272.7	279.3
60°	196.5	209.7	237.3	256.1	261.6
62.5°	175.5	191.0	220.8	239.6	244.0
65°	153.4	172.2	203.1	219.7	224.1
67.5°	132.5	154.5	185.5	197.6	197.6
70°	110.4	134.7	165.6	168.9	162.3
72.5°	88.3	115.9	143.5	131.4	125.8
75°	67.3	98.2	112.6	101.6	98.2
77.5°	50.8	79.5	79.5	72.9	70.7
80°	35.3	60.7	53.0	46.4	43.1
82.5°	23.2	34.2	27.6	22.1	18.8
85°	12.1	13.2	7.7	6.6	5.5
87.5°	4.4	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)