

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: P275849

Luminaire Tested: **14CZ2-25-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275849
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-L92765-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1332.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

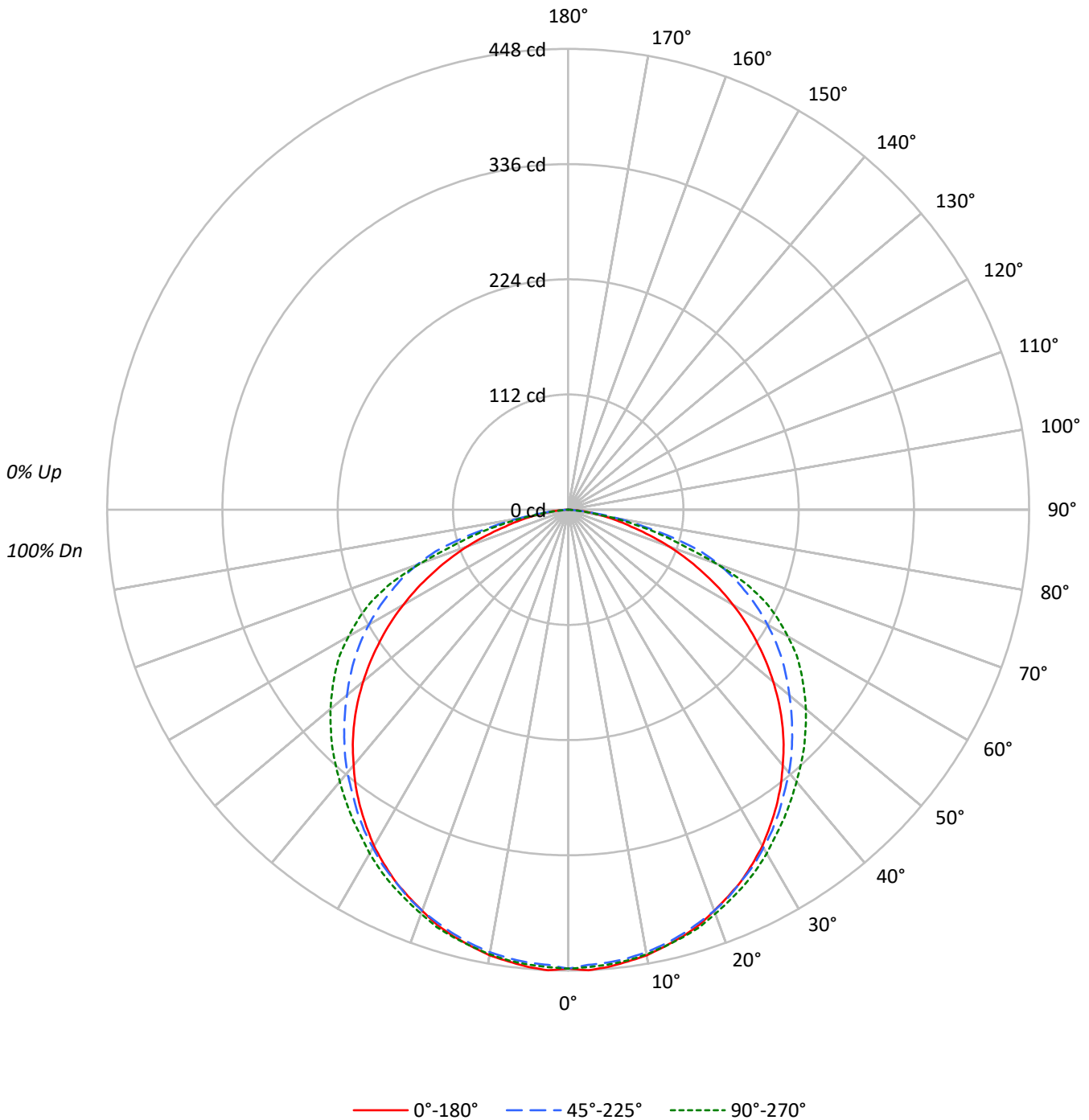
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1200	1200	1200
5°	1205	1194	1199
10°	1202	1194	1199
15°	1197	1191	1199
20°	1188	1188	1197
25°	1183	1183	1198
30°	1173	1180	1199
35°	1158	1175	1202
40°	1140	1173	1213
45°	1120	1171	1235
50°	1088	1176	1263
55°	1049	1190	1298
60°	996	1203	1327
65°	920	1218	1344
70°	818	1227	1203
75°	659	1103	963
80°	516	773	629
85°	352	225	161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	3.2
10°-20°	121.1	9.1
20°-30°	184.5	13.8
30°-40°	224.7	16.9
40°-50°	238.4	17.9
50°-60°	225.0	16.9
60°-70°	181.6	13.6
70°-80°	98.5	7.4
80°-90°	15.9	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°	347.8	26.1
0°-40°	572.5	43.0
0°-60°	1035.9	77.8
0°-90°	1332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	446	445	442	445	444	42
15°	430	428	427	430	430	121
25°	398	397	398	402	404	183
35°	352	355	358	365	366	220
45°	294	298	308	319	324	227
55°	224	233	254	270	277	200
65°	144	162	191	207	211	143
75°	63	93	106	96	93	69
85°	11	12	7	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	446.1	446.1	446.1	446.1	446.1
2.5°	448.2	446.1	443.0	446.1	445.1
5°	446.1	445.1	442.0	445.1	444.0
7.5°	443.0	443.0	439.9	442.0	442.0
10°	439.9	438.8	436.8	439.9	438.8
12.5°	434.7	433.6	432.6	435.7	434.7
15°	429.5	428.4	427.4	430.5	430.5
17.5°	423.2	422.2	421.2	425.3	425.3
20°	414.9	414.9	414.9	419.1	418.0
22.5°	406.6	406.6	407.6	411.8	410.8
25°	398.3	397.2	398.3	402.4	403.5
27.5°	387.9	388.9	390.0	394.1	395.2
30°	377.5	378.5	379.6	384.8	385.8
32.5°	365.0	367.1	369.2	375.4	375.4
35°	352.5	354.6	357.7	365.0	366.0
37.5°	339.0	341.1	345.2	353.6	355.6
40°	324.5	327.6	333.8	342.1	345.2
42.5°	309.9	314.1	321.3	330.7	334.9
45°	294.3	298.5	307.8	319.3	324.5
47.5°	277.7	282.9	294.3	308.9	313.0
50°	260.0	267.3	280.8	296.4	301.6
52.5°	242.3	250.6	267.3	283.9	289.1
55°	223.6	232.9	253.7	270.4	276.6
57.5°	204.9	215.3	239.2	256.9	263.1
60°	185.1	197.6	223.6	241.3	246.5
62.5°	165.3	179.9	208.0	225.7	229.8
65°	144.5	162.2	191.3	206.9	211.1
67.5°	124.8	145.6	174.7	186.1	186.1
70°	104.0	126.9	156.0	159.1	152.9
72.5°	83.2	109.2	135.2	123.7	118.5
75°	63.4	92.6	106.1	95.7	92.6
77.5°	47.8	74.9	74.9	68.6	66.6
80°	33.3	57.2	49.9	43.7	40.6
82.5°	21.8	32.2	26.0	20.8	17.7
85°	11.4	12.5	7.3	6.2	5.2
87.5°	4.2	2.1	1.0	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)