

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: P275796

Luminaire Tested: **14CZ2-25-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275796
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-L82765-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: 1554.0 lumens
Efficiency: N/A
Efficacy: 84.4 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

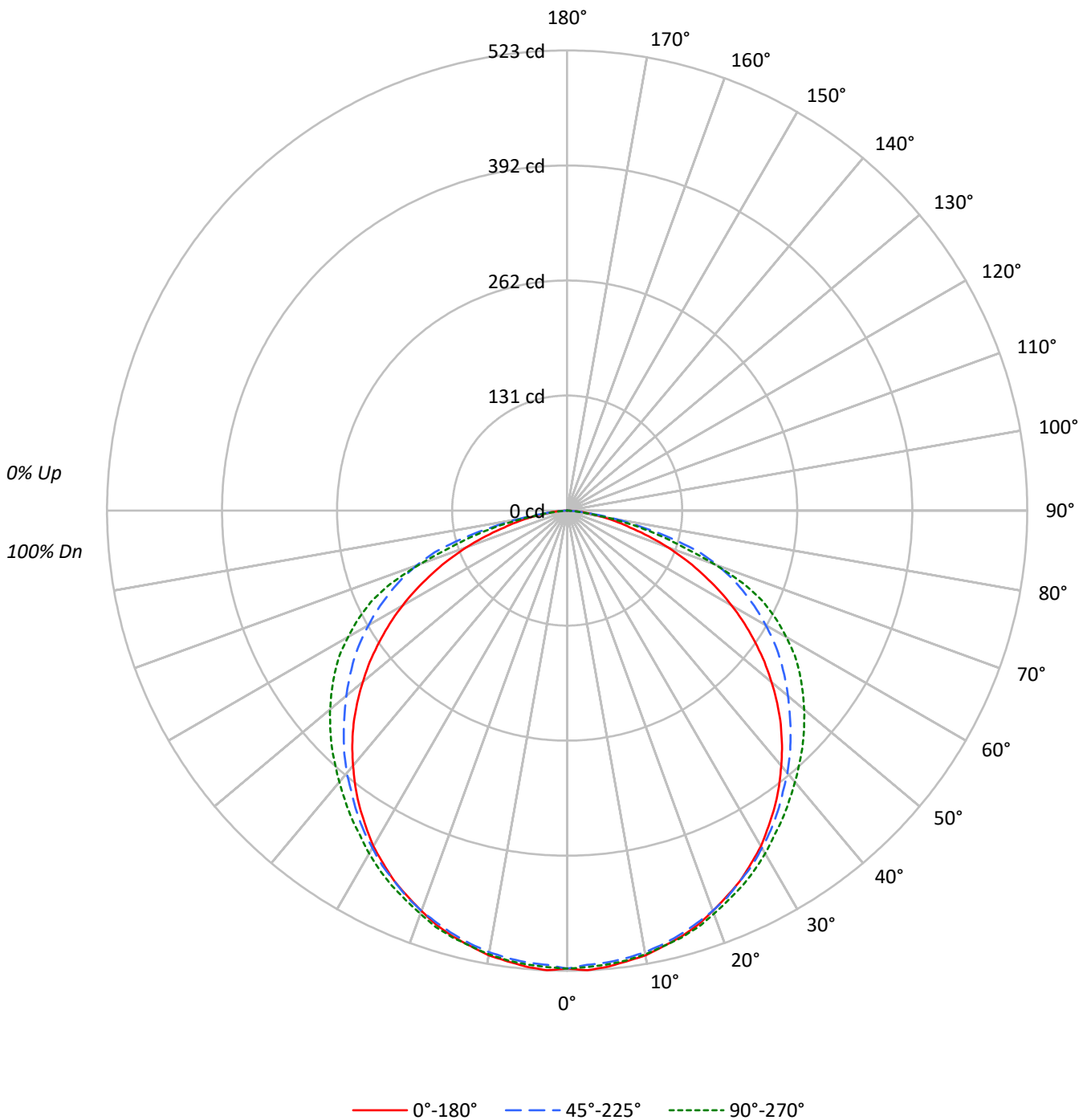
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1401	1401	1401
5°	1406	1393	1399
10°	1402	1392	1399
15°	1396	1389	1399
20°	1386	1386	1397
25°	1380	1380	1398
30°	1368	1376	1399
35°	1351	1371	1403
40°	1330	1368	1415
45°	1306	1367	1440
50°	1270	1371	1473
55°	1224	1389	1514
60°	1163	1404	1547
65°	1074	1421	1568
70°	954	1432	1403
75°	769	1286	1123
80°	601	902	733
85°	411	262	188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.2
10°-20°	141.3	9.1
20°-30°	215.2	13.8
30°-40°	262.1	16.9
40°-50°	278.1	17.9
50°-60°	262.5	16.9
60°-70°	211.9	13.6
70°-80°	115.0	7.4
80°-90°	18.6	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°	405.8	26.1
0°-40°	667.9	43.0
0°-60°	1208.5	77.8
0°-90°	1554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	520	519	516	519	518	49
15°	501	500	499	502	502	141
25°	465	464	465	470	471	214
35°	411	414	417	426	427	257
45°	343	348	359	372	378	264
55°	261	272	296	315	323	233
65°	169	189	223	241	246	167
75°	74	108	124	112	108	81
85°	13	15	8	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	520.5	520.5	520.5	520.5	520.5
2.5°	522.9	520.5	516.8	520.5	519.3
5°	520.5	519.3	515.6	519.3	518.0
7.5°	516.8	516.8	513.2	515.6	515.6
10°	513.2	512.0	509.6	513.2	512.0
12.5°	507.1	505.9	504.7	508.3	507.1
15°	501.1	499.8	498.6	502.3	502.3
17.5°	493.8	492.6	491.4	496.2	496.2
20°	484.1	484.1	484.1	488.9	487.7
22.5°	474.4	474.4	475.6	480.4	479.2
25°	464.7	463.5	464.7	469.5	470.7
27.5°	452.5	453.7	455.0	459.8	461.0
30°	440.4	441.6	442.8	448.9	450.1
32.5°	425.8	428.3	430.7	438.0	438.0
35°	411.3	413.7	417.4	425.8	427.1
37.5°	395.5	397.9	402.8	412.5	414.9
40°	378.5	382.2	389.4	399.2	402.8
42.5°	361.5	366.4	374.9	385.8	390.7
45°	343.3	348.2	359.1	372.5	378.5
47.5°	323.9	330.0	343.3	360.3	365.2
50°	303.3	311.8	327.6	345.8	351.8
52.5°	282.7	292.4	311.8	331.2	337.3
55°	260.8	271.8	296.0	315.4	322.7
57.5°	239.0	251.1	279.0	299.7	306.9
60°	216.0	230.5	260.8	281.5	287.5
62.5°	192.9	209.9	242.6	263.3	268.1
65°	168.6	189.3	223.2	241.4	246.3
67.5°	145.6	169.9	203.8	217.2	217.2
70°	121.3	148.0	182.0	185.6	178.3
72.5°	97.1	127.4	157.7	144.4	138.3
75°	74.0	108.0	123.7	111.6	108.0
77.5°	55.8	87.4	87.4	80.1	77.6
80°	38.8	66.7	58.2	51.0	47.3
82.5°	25.5	37.6	30.3	24.3	20.6
85°	13.3	14.6	8.5	7.3	6.1
87.5°	4.9	2.4	1.2	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)