

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: P275457

Luminaire Tested: **14CZ2-25-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2225.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

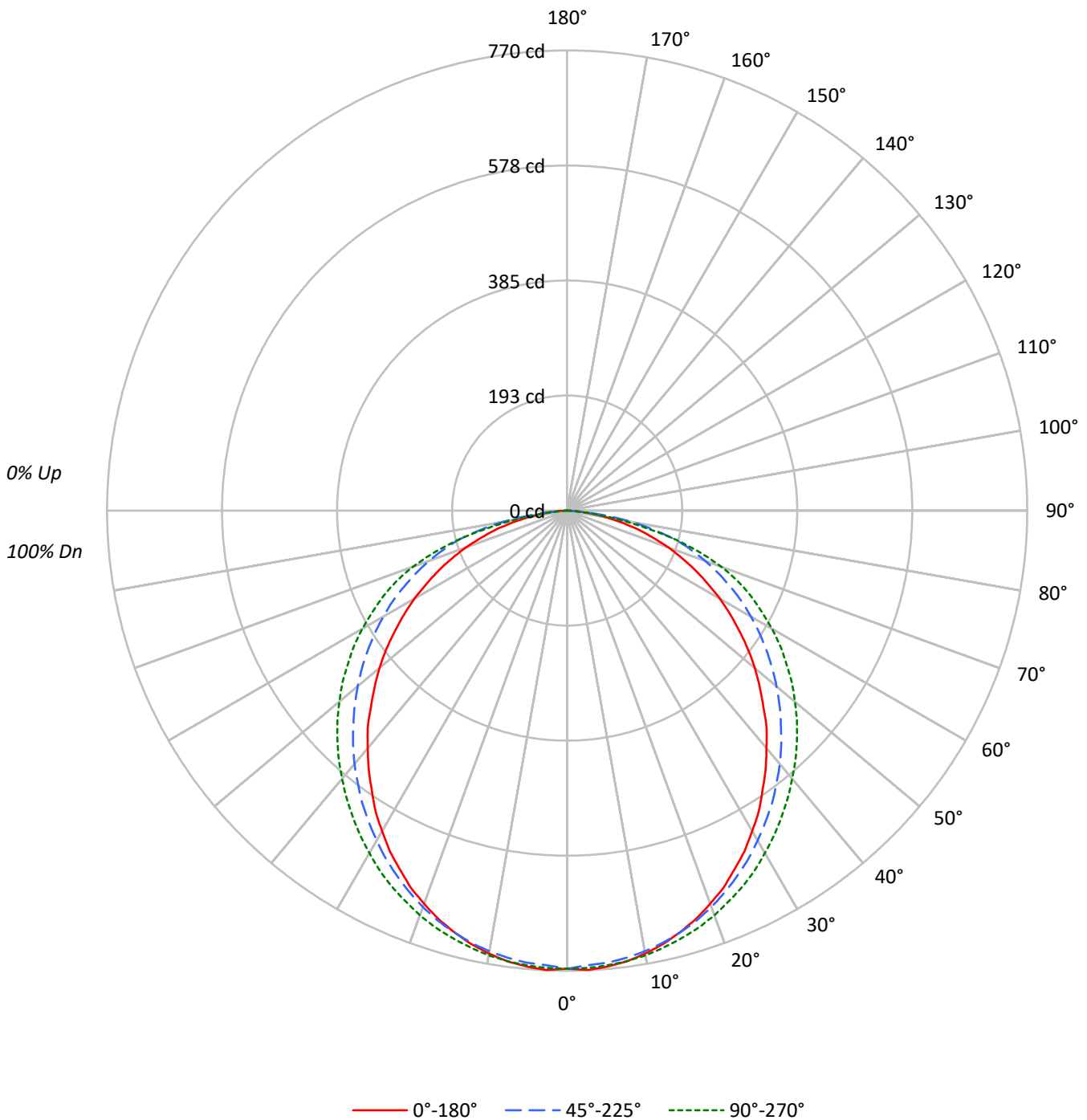
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2063	2063	2063
5°	2069	2052	2064
10°	2056	2046	2065
15°	2035	2036	2064
20°	2005	2022	2063
25°	1966	2002	2061
30°	1924	1981	2056
35°	1873	1964	2055
40°	1823	1945	2058
45°	1767	1924	2069
50°	1716	1915	2083
55°	1650	1909	2102
60°	1591	1912	2131
65°	1510	1918	2164
70°	1417	1932	2163
75°	1284	1949	1955
80°	1054	1684	1392
85°	781	797	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.3
10°-20°	207.2	9.3
20°-30°	312.1	14.0
30°-40°	374.6	16.8
40°-50°	390.4	17.5
50°-60°	361.4	16.2
60°-70°	292.0	13.1
70°-80°	178.0	8.0
80°-90°	36.8	1.7
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°	591.9	26.6
0°-40°	966.4	43.4
0°-60°	1718.2	77.2
0°-90°	2225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	766	764	760	765	764	73
15°	730	731	731	741	741	206
25°	662	666	674	691	694	305
35°	570	579	598	620	626	357
45°	464	478	506	534	544	359
55°	352	370	407	439	448	315
65°	237	260	301	331	340	234
75°	124	151	188	190	188	130
85°	25	38	26	14	10	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.5	766.5	766.5	766.5	766.5
2.5°	769.5	767.0	761.6	767.0	766.0
5°	766.0	764.0	759.6	765.0	764.0
7.5°	761.1	759.1	755.1	761.6	760.6
10°	752.6	751.6	748.7	756.1	755.6
12.5°	742.7	742.2	740.7	749.2	748.7
15°	730.3	730.8	730.8	740.7	740.7
17.5°	716.4	717.4	719.4	730.3	731.8
20°	700.0	702.0	706.0	718.4	720.4
22.5°	683.2	684.7	690.6	705.5	707.5
25°	662.3	666.3	674.2	691.1	694.1
27.5°	642.5	646.0	656.9	674.2	679.2
30°	619.2	624.6	637.5	656.4	661.8
32.5°	596.8	602.8	617.7	639.5	644.5
35°	570.1	579.0	597.8	619.7	625.6
37.5°	545.7	554.2	575.5	599.3	606.3
40°	519.0	529.4	553.7	579.0	585.9
42.5°	494.1	504.1	530.4	556.2	565.6
45°	464.4	478.3	505.6	533.8	543.8
47.5°	437.1	451.0	482.2	512.5	521.4
50°	409.8	424.7	457.4	488.7	497.6
52.5°	381.5	397.4	432.6	463.9	474.3
55°	351.8	370.1	406.8	438.6	448.0
57.5°	323.5	342.3	381.5	413.8	423.2
60°	295.7	315.0	355.2	386.0	395.9
62.5°	264.9	287.8	329.4	359.7	367.1
65°	237.1	260.5	301.2	331.4	339.8
67.5°	207.9	233.2	273.9	301.6	309.6
70°	180.1	206.4	245.6	271.4	274.9
72.5°	150.3	177.1	216.8	233.2	233.2
75°	123.5	150.8	187.5	190.5	188.0
77.5°	94.3	124.5	148.3	142.4	136.4
80°	68.0	97.7	108.7	97.7	89.8
82.5°	45.6	70.9	65.5	52.1	46.1
85°	25.3	37.7	25.8	14.4	10.4
87.5°	9.4	8.4	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)