

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: P275425

Luminaire Tested: **14CZ2-25-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275425
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2227.0 lumens
Efficiency: N/A
Efficacy: 119.1 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

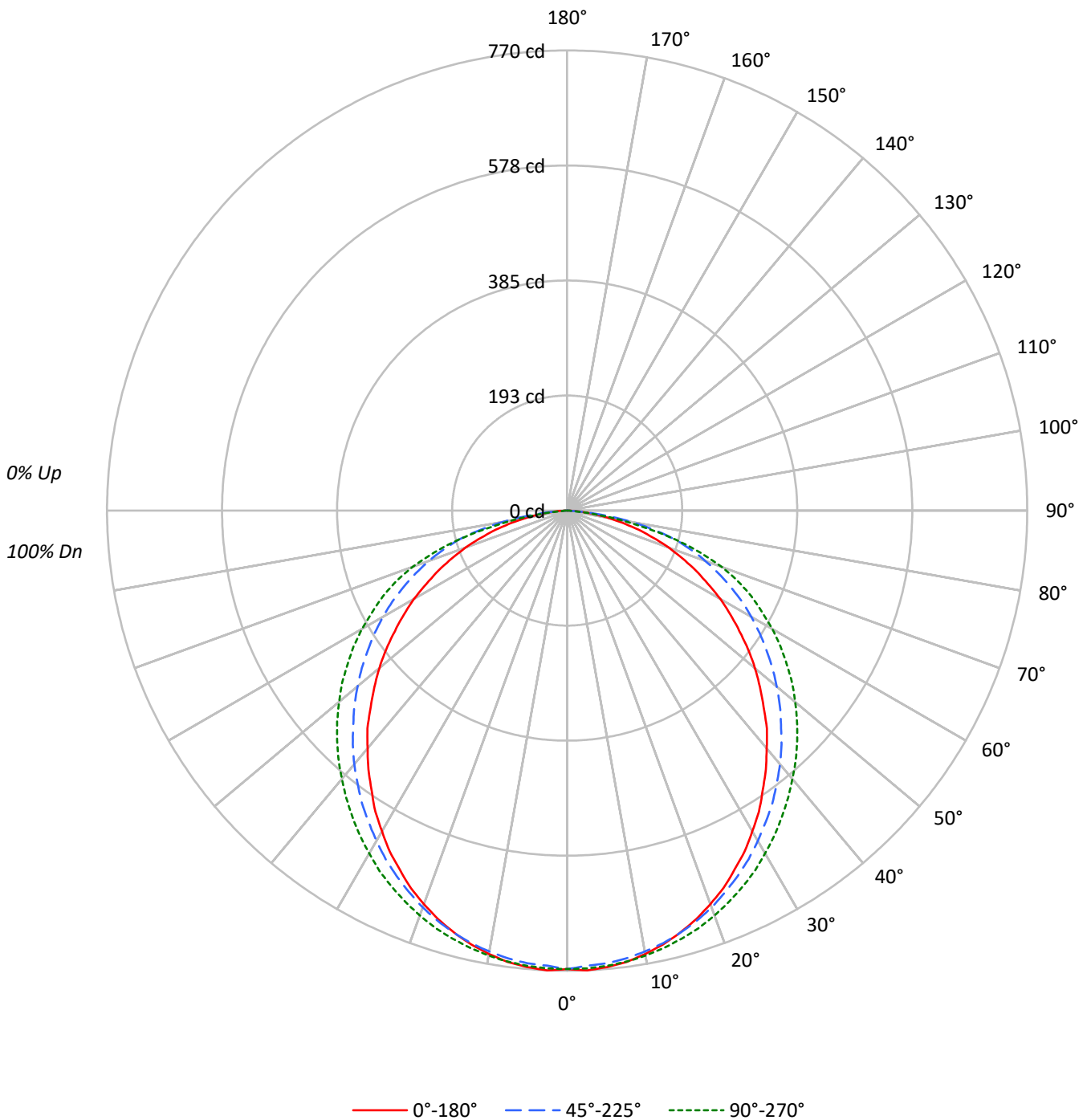
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2065	2065	2065
5°	2071	2054	2066
10°	2058	2047	2067
15°	2036	2038	2065
20°	2007	2023	2065
25°	1968	2004	2063
30°	1926	1983	2058
35°	1874	1966	2057
40°	1825	1947	2060
45°	1769	1926	2071
50°	1717	1917	2085
55°	1652	1910	2104
60°	1593	1913	2133
65°	1512	1919	2166
70°	1419	1934	2164
75°	1285	1952	1957
80°	1054	1684	1393
85°	781	797	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	3.3
10°-20°	207.4	9.3
20°-30°	312.4	14.0
30°-40°	374.9	16.8
40°-50°	390.7	17.5
50°-60°	361.7	16.2
60°-70°	292.3	13.1
70°-80°	178.2	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°	592.4	26.6
0°-40°	967.3	43.4
0°-60°	1719.7	77.2
0°-90°	2227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	765	760	766	765	73
15°	731	732	732	741	741	206
25°	663	667	675	692	695	306
35°	571	580	598	620	626	357
45°	465	479	506	534	544	359
55°	352	370	407	439	448	315
65°	237	261	301	332	340	235
75°	124	151	188	191	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°	767.2	767.2	767.2	767.2	767.2
2.5°	770.2	767.7	762.2	767.7	766.7
5°	766.7	764.7	760.3	765.7	764.7
7.5°	761.7	759.8	755.8	762.2	761.2
10°	753.3	752.3	749.3	756.8	756.3
12.5°	743.4	742.9	741.4	749.8	749.3
15°	731.0	731.5	731.5	741.4	741.4
17.5°	717.1	718.0	720.0	731.0	732.4
20°	700.7	702.7	706.6	719.0	721.0
22.5°	683.8	685.3	691.2	706.1	708.1
25°	662.9	666.9	674.8	691.7	694.7
27.5°	643.1	646.5	657.5	674.8	679.8
30°	619.7	625.2	638.1	657.0	662.4
32.5°	597.4	603.3	618.2	640.1	645.1
35°	570.6	579.5	598.4	620.2	626.2
37.5°	546.2	554.7	576.0	599.9	606.8
40°	519.4	529.8	554.2	579.5	586.5
42.5°	494.6	504.5	530.8	556.7	566.1
45°	464.8	478.7	506.0	534.3	544.2
47.5°	437.5	451.4	482.7	513.0	521.9
50°	410.2	425.1	457.8	489.1	498.1
52.5°	381.9	397.8	433.0	464.3	474.7
55°	352.1	370.4	407.2	439.0	448.4
57.5°	323.8	342.6	381.9	414.1	423.6
60°	296.0	315.3	355.5	386.3	396.3
62.5°	265.2	288.0	329.7	360.0	367.5
65°	237.4	260.7	301.4	331.7	340.2
67.5°	208.1	233.4	274.1	301.9	309.9
70°	180.3	206.6	245.8	271.6	275.1
72.5°	150.5	177.3	217.0	233.4	233.4
75°	123.6	151.0	187.7	190.7	188.2
77.5°	94.3	124.6	148.5	142.5	136.6
80°	68.0	97.8	108.7	97.8	89.9
82.5°	45.7	71.0	65.5	52.1	46.2
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)