

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: P275393

Luminaire Tested: **14CZ2-25-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275393
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2292.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

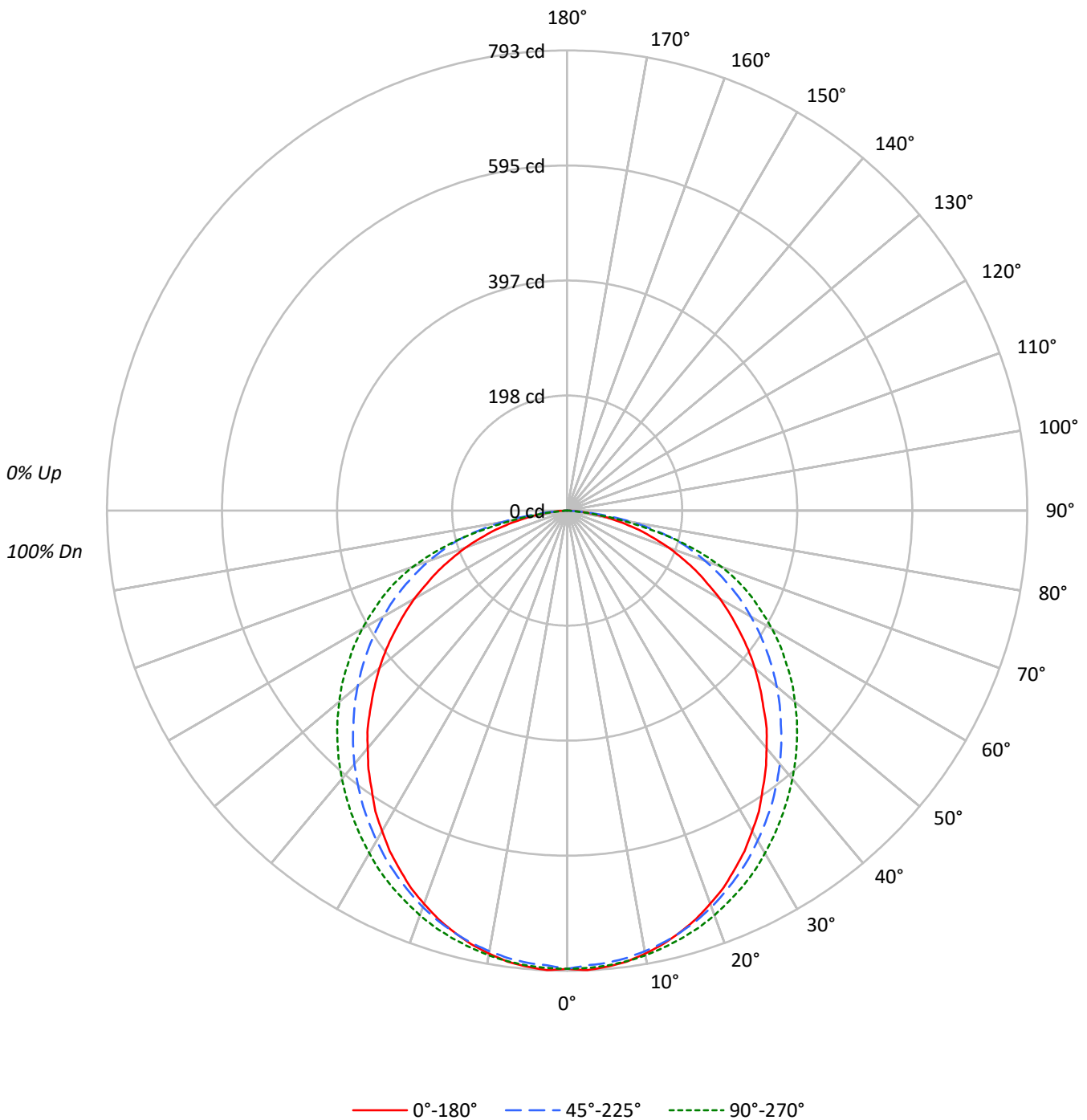
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2125	2125	2125
5°	2132	2113	2126
10°	2119	2107	2127
15°	2096	2097	2126
20°	2065	2083	2125
25°	2026	2062	2123
30°	1982	2041	2119
35°	1929	2023	2117
40°	1878	2004	2120
45°	1821	1982	2132
50°	1767	1973	2146
55°	1700	1966	2165
60°	1639	1969	2195
65°	1556	1975	2229
70°	1459	1991	2227
75°	1324	2009	2014
80°	1085	1734	1433
85°	806	821	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.3
10°-20°	213.4	9.3
20°-30°	321.5	14.0
30°-40°	385.8	16.8
40°-50°	402.1	17.5
50°-60°	372.3	16.2
60°-70°	300.8	13.1
70°-80°	183.4	8.0
80°-90°	37.9	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°	609.7	26.6
0°-40°	995.5	43.4
0°-60°	1769.9	77.2
0°-90°	2292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	789	787	782	788	787	75
15°	752	753	753	763	763	212
25°	682	686	694	712	715	314
35°	587	596	616	638	644	368
45°	478	493	521	550	560	370
55°	362	381	419	452	462	325
65°	244	268	310	341	350	242
75°	127	155	193	196	194	134
85°	26	39	27	15	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.6	789.6	789.6	789.6	789.6
2.5°	792.7	790.1	784.5	790.1	789.1
5°	789.1	787.0	782.4	788.1	787.0
7.5°	784.0	781.9	777.8	784.5	783.5
10°	775.3	774.3	771.2	778.9	778.4
12.5°	765.1	764.6	763.0	771.7	771.2
15°	752.3	752.8	752.8	763.0	763.0
17.5°	738.0	739.0	741.0	752.3	753.8
20°	721.1	723.2	727.3	740.0	742.1
22.5°	703.7	705.3	711.4	726.7	728.8
25°	682.3	686.4	694.5	711.9	715.0
27.5°	661.8	665.4	676.7	694.5	699.7
30°	637.8	643.4	656.7	676.1	681.8
32.5°	614.8	620.9	636.3	658.8	663.9
35°	587.2	596.4	615.8	638.3	644.5
37.5°	562.2	570.9	592.8	617.4	624.5
40°	534.6	545.3	570.4	596.4	603.6
42.5°	509.0	519.2	546.3	572.9	582.6
45°	478.4	492.7	520.8	549.9	560.1
47.5°	450.3	464.6	496.8	527.9	537.1
50°	422.1	437.5	471.2	503.4	512.6
52.5°	393.0	409.4	445.7	477.8	488.6
55°	362.3	381.3	419.1	451.8	461.5
57.5°	333.2	352.6	393.0	426.2	435.9
60°	304.6	324.5	365.9	397.6	407.8
62.5°	272.9	296.4	339.3	370.5	378.2
65°	244.3	268.3	310.2	341.4	350.1
67.5°	214.1	240.2	282.1	310.7	318.9
70°	185.5	212.6	253.0	279.6	283.1
72.5°	154.9	182.5	223.3	240.2	240.2
75°	127.3	155.4	193.2	196.3	193.7
77.5°	97.1	128.3	152.8	146.7	140.5
80°	70.0	100.7	111.9	100.7	92.5
82.5°	47.0	73.1	67.5	53.7	47.5
85°	26.1	38.8	26.6	14.8	10.7
87.5°	9.7	8.7	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)