

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: P275394

Luminaire Tested: **14CZ2-25-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275394
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-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2426.0 lumens
Efficiency: N/A
Efficacy: 133.1 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

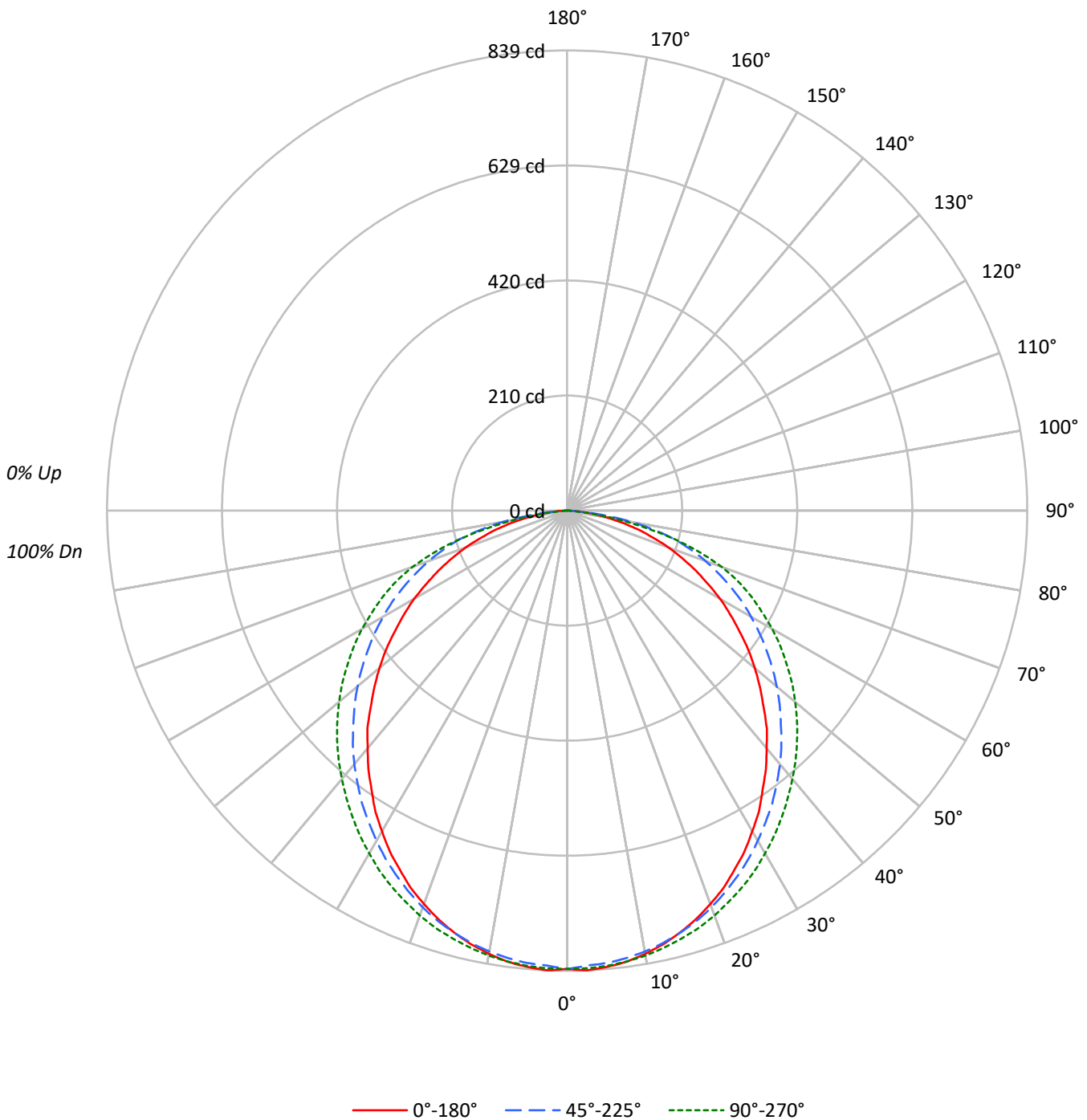
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2249	2249	2249
5°	2256	2237	2250
10°	2242	2231	2251
15°	2218	2220	2250
20°	2186	2204	2249
25°	2144	2183	2247
30°	2098	2160	2242
35°	2042	2141	2241
40°	1988	2121	2244
45°	1927	2098	2256
50°	1870	2088	2272
55°	1799	2081	2292
60°	1735	2084	2323
65°	1647	2091	2359
70°	1545	2107	2358
75°	1400	2126	2131
80°	1148	1836	1517
85°	852	868	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	3.3
10°-20°	225.9	9.3
20°-30°	340.3	14.0
30°-40°	408.4	16.8
40°-50°	425.7	17.5
50°-60°	394.1	16.2
60°-70°	318.4	13.1
70°-80°	194.1	8.0
80°-90°	40.1	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°	645.3	26.6
0°-40°	1053.7	43.4
0°-60°	1873.4	77.2
0°-90°	2426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	835	833	828	834	833	79
15°	796	797	797	808	808	224
25°	722	726	735	754	757	333
35°	622	631	652	676	682	389
45°	506	522	551	582	593	391
55°	384	404	444	478	488	344
65°	259	284	328	361	370	256
75°	135	164	204	208	205	141
85°	28	41	28	16	11	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.8	835.8	835.8	835.8	835.8
2.5°	839.0	836.3	830.4	836.3	835.2
5°	835.2	833.1	828.2	834.1	833.1
7.5°	829.8	827.7	823.3	830.4	829.3
10°	820.6	819.5	816.3	824.4	823.9
12.5°	809.8	809.3	807.6	816.8	816.3
15°	796.3	796.8	796.8	807.6	807.6
17.5°	781.1	782.2	784.4	796.3	797.9
20°	763.3	765.4	769.8	783.3	785.5
22.5°	744.9	746.5	753.0	769.2	771.4
25°	722.2	726.5	735.1	753.5	756.8
27.5°	700.5	704.3	716.2	735.1	740.6
30°	675.1	681.1	695.1	715.7	721.6
32.5°	650.8	657.3	673.5	697.3	702.7
35°	621.5	631.3	651.8	675.6	682.1
37.5°	595.0	604.2	627.5	653.5	661.0
40°	565.8	577.2	603.7	631.3	638.9
42.5°	538.8	549.6	578.3	606.4	616.7
45°	506.3	521.5	551.2	582.1	592.9
47.5°	476.6	491.7	525.8	558.8	568.5
50°	446.8	463.1	498.8	532.8	542.6
52.5°	416.0	433.3	471.7	505.8	517.1
55°	383.5	403.5	443.6	478.2	488.5
57.5°	352.7	373.3	416.0	451.2	461.4
60°	322.4	343.5	387.3	420.9	431.7
62.5°	288.9	313.7	359.2	392.2	400.3
65°	258.6	284.0	328.4	361.4	370.5
67.5°	226.7	254.2	298.6	328.9	337.6
70°	196.4	225.0	267.8	295.9	299.7
72.5°	163.9	193.1	236.4	254.2	254.2
75°	134.7	164.4	204.5	207.7	205.0
77.5°	102.8	135.8	161.7	155.3	148.8
80°	74.1	106.6	118.5	106.6	97.9
82.5°	49.8	77.4	71.4	56.8	50.3
85°	27.6	41.1	28.1	15.7	11.4
87.5°	10.3	9.2	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)