

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: P275460

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275460
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-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2422.0 lumens
Efficiency: N/A
Efficacy: 131.5 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

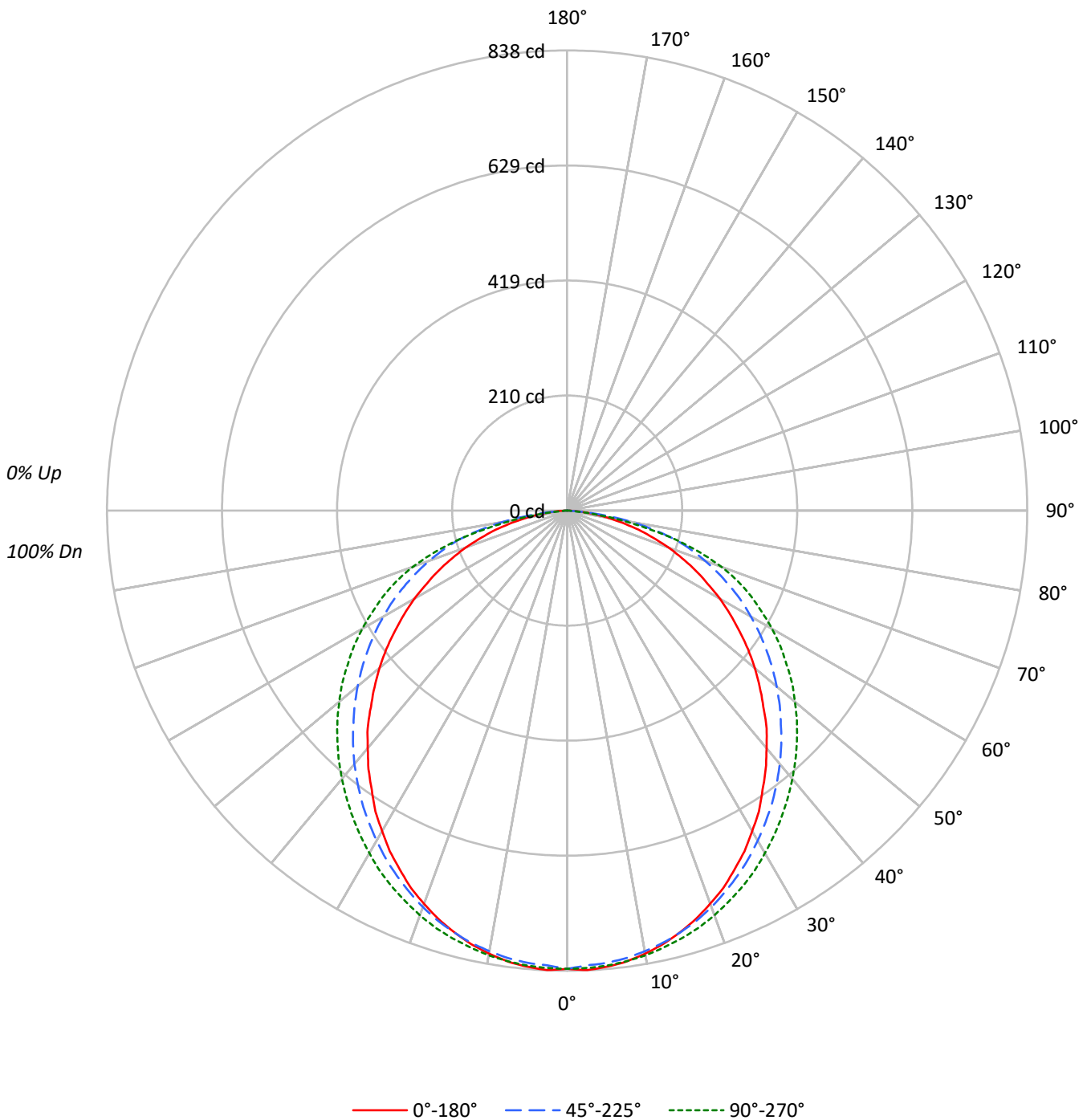
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2245	2245	2245
5°	2252	2233	2247
10°	2239	2227	2247
15°	2215	2216	2246
20°	2182	2201	2246
25°	2141	2179	2243
30°	2094	2156	2238
35°	2038	2138	2237
40°	1984	2117	2240
45°	1924	2094	2253
50°	1868	2084	2268
55°	1796	2077	2288
60°	1732	2081	2320
65°	1643	2087	2355
70°	1542	2103	2354
75°	1398	2122	2128
80°	1147	1833	1516
85°	849	868	349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.3
10°-20°	225.5	9.3
20°-30°	339.8	14.0
30°-40°	407.7	16.8
40°-50°	424.9	17.5
50°-60°	393.4	16.2
60°-70°	317.9	13.1
70°-80°	193.8	8.0
80°-90°	40.0	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°	644.3	26.6
0°-40°	1052.0	43.4
0°-60°	1870.3	77.2
0°-90°	2422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	834	832	827	833	832	79
15°	795	796	796	806	806	224
25°	721	725	734	752	756	332
35°	620	630	651	674	681	389
45°	506	521	550	581	592	391
55°	383	403	443	477	488	343
65°	258	284	328	361	370	255
75°	134	164	204	207	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°	834.4	834.4	834.4	834.4	834.4
2.5°	837.6	834.9	829.0	834.9	833.8
5°	833.8	831.7	826.8	832.8	831.7
7.5°	828.4	826.3	822.0	829.0	827.9
10°	819.3	818.2	814.9	823.0	822.5
12.5°	808.5	807.9	806.3	815.5	814.9
15°	795.0	795.5	795.5	806.3	806.3
17.5°	779.8	780.9	783.1	795.0	796.6
20°	762.0	764.2	768.5	782.0	784.2
22.5°	743.7	745.3	751.8	768.0	770.1
25°	721.0	725.3	733.9	752.3	755.5
27.5°	699.4	703.2	715.0	733.9	739.3
30°	674.0	679.9	694.0	714.5	720.4
32.5°	649.7	656.2	672.4	696.1	701.5
35°	620.5	630.2	650.8	674.5	681.0
37.5°	594.1	603.2	626.5	652.4	659.9
40°	564.9	576.2	602.7	630.2	637.8
42.5°	537.9	548.7	577.3	605.4	615.7
45°	505.5	520.6	550.3	581.1	591.9
47.5°	475.8	490.9	524.9	557.9	567.6
50°	446.1	462.3	497.9	532.0	541.7
52.5°	415.3	432.6	470.9	505.0	516.3
55°	382.9	402.9	442.8	477.4	487.7
57.5°	352.1	372.6	415.3	450.4	460.7
60°	321.9	342.9	386.7	420.2	431.0
62.5°	288.4	313.2	358.6	391.5	399.6
65°	258.1	283.5	327.8	360.8	369.9
67.5°	226.3	253.8	298.1	328.4	337.0
70°	196.0	224.7	267.3	295.4	299.2
72.5°	163.6	192.8	236.0	253.8	253.8
75°	134.5	164.2	204.1	207.4	204.7
77.5°	102.6	135.6	161.5	155.0	148.5
80°	74.0	106.4	118.3	106.4	97.8
82.5°	49.7	77.2	71.3	56.7	50.2
85°	27.5	41.0	28.1	15.7	11.3
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)