

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: P275629

Luminaire Tested: **14CZ2-25-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2490.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

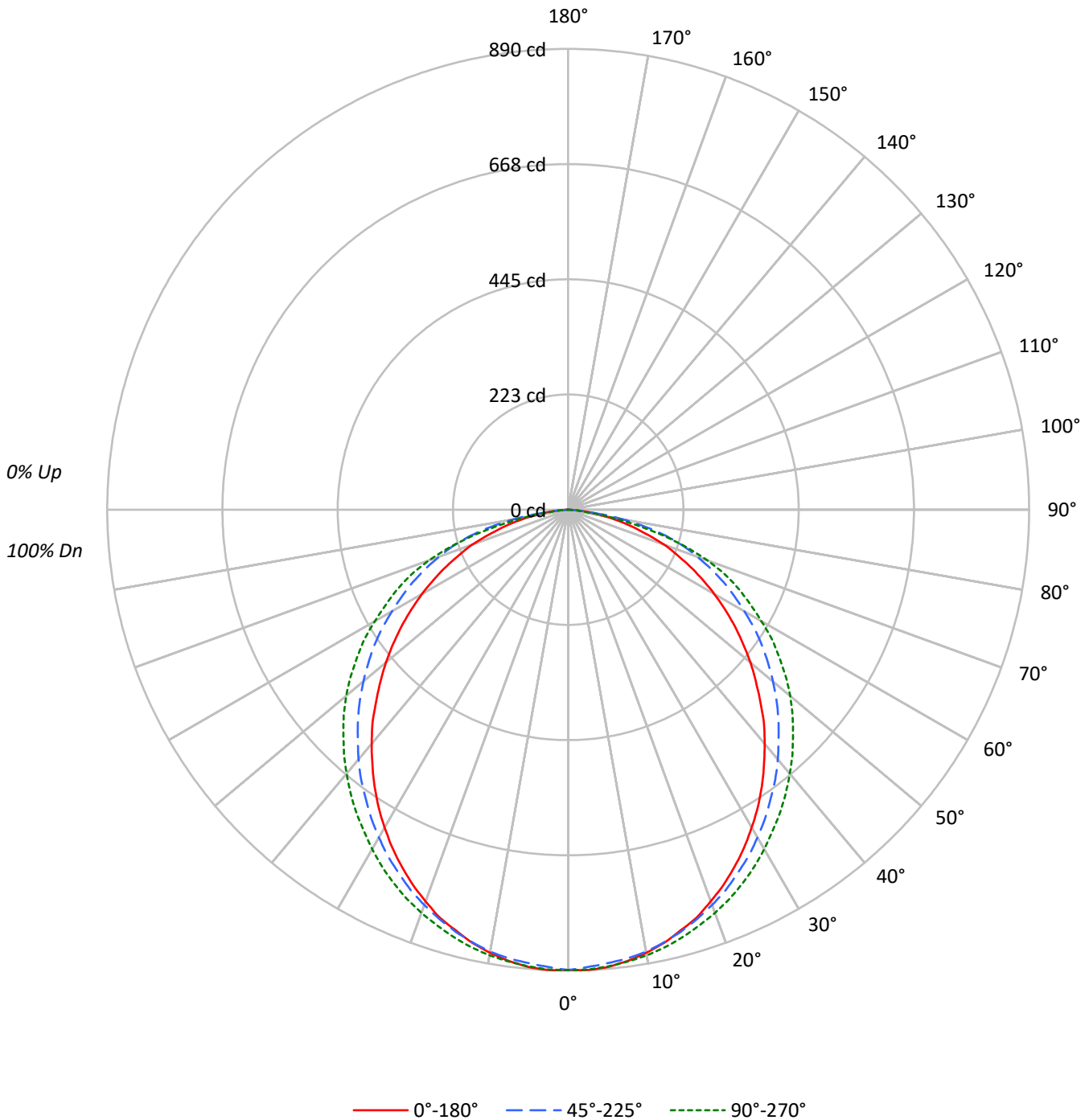
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2392	2392	2392
5°	2394	2374	2391
10°	2375	2368	2388
15°	2342	2349	2380
20°	2305	2326	2372
25°	2258	2298	2364
30°	2202	2271	2352
35°	2142	2239	2344
40°	2073	2212	2337
45°	1997	2185	2335
50°	1923	2160	2341
55°	1842	2143	2334
60°	1754	2113	2319
65°	1651	2107	2319
70°	1554	2088	2253
75°	1347	2041	1926
80°	1091	1646	1282
85°	726	571	380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.4
10°-20°	238.8	9.6
20°-30°	358.3	14.4
30°-40°	427.4	17.2
40°-50°	441.8	17.7
50°-60°	403.4	16.2
60°-70°	317.5	12.7
70°-80°	184.8	7.4
80°-90°	34.1	1.4
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°	681.1	27.4
0°-40°	1108.5	44.5
0°-60°	1953.7	78.5
0°-90°	2490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	886	884	879	886	885	84
15°	841	842	843	854	854	237
25°	760	764	774	793	796	350
35°	652	660	682	707	714	407
45°	525	542	574	606	614	405
55°	393	414	457	490	498	351
65°	259	286	331	357	364	257
75°	130	160	196	193	185	138
85°	24	33	18	15	12	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.9	888.9	888.9	888.9	888.9
2.5°	890.1	887.7	884.0	890.1	888.9
5°	886.4	884.0	879.0	886.4	885.2
7.5°	879.0	876.5	874.1	881.5	880.2
10°	869.1	867.9	866.7	875.3	874.1
12.5°	856.8	856.8	855.6	865.4	865.4
15°	840.7	842.0	843.2	854.3	854.3
17.5°	825.9	824.7	828.4	840.7	842.0
20°	804.9	807.4	812.3	827.2	828.4
22.5°	784.0	786.4	795.1	809.9	813.6
25°	760.5	764.2	774.1	792.6	796.3
27.5°	735.8	740.7	754.3	774.1	777.8
30°	708.6	716.0	730.9	753.1	756.8
32.5°	681.5	688.9	707.4	729.6	734.6
35°	651.9	660.5	681.5	707.4	713.6
37.5°	621.0	632.1	656.8	682.7	690.1
40°	590.1	602.5	629.6	656.8	665.4
42.5°	559.3	571.6	601.2	632.1	640.7
45°	524.7	542.0	574.1	606.2	613.6
47.5°	491.4	509.9	545.7	577.8	587.7
50°	459.3	477.8	516.0	549.4	559.3
52.5°	425.9	445.7	486.4	521.0	529.6
55°	392.6	413.6	456.8	490.1	497.5
57.5°	359.3	381.5	425.9	458.0	466.7
60°	325.9	349.4	392.6	424.7	430.9
62.5°	292.6	317.3	361.7	390.1	396.3
65°	259.3	286.4	330.9	356.8	364.2
67.5°	227.2	254.3	297.5	322.2	328.4
70°	197.5	222.2	265.4	284.0	286.4
72.5°	160.5	191.4	233.3	243.2	237.0
75°	129.6	160.5	196.3	192.6	185.2
77.5°	98.8	129.6	153.1	140.7	130.9
80°	70.4	101.2	106.2	87.7	82.7
82.5°	45.7	70.4	59.3	45.7	37.0
85°	23.5	33.3	18.5	14.8	12.3
87.5°	7.4	4.9	2.5	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)