

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: P275625

Luminaire Tested: **14CZ2-25-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275625
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-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2249.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

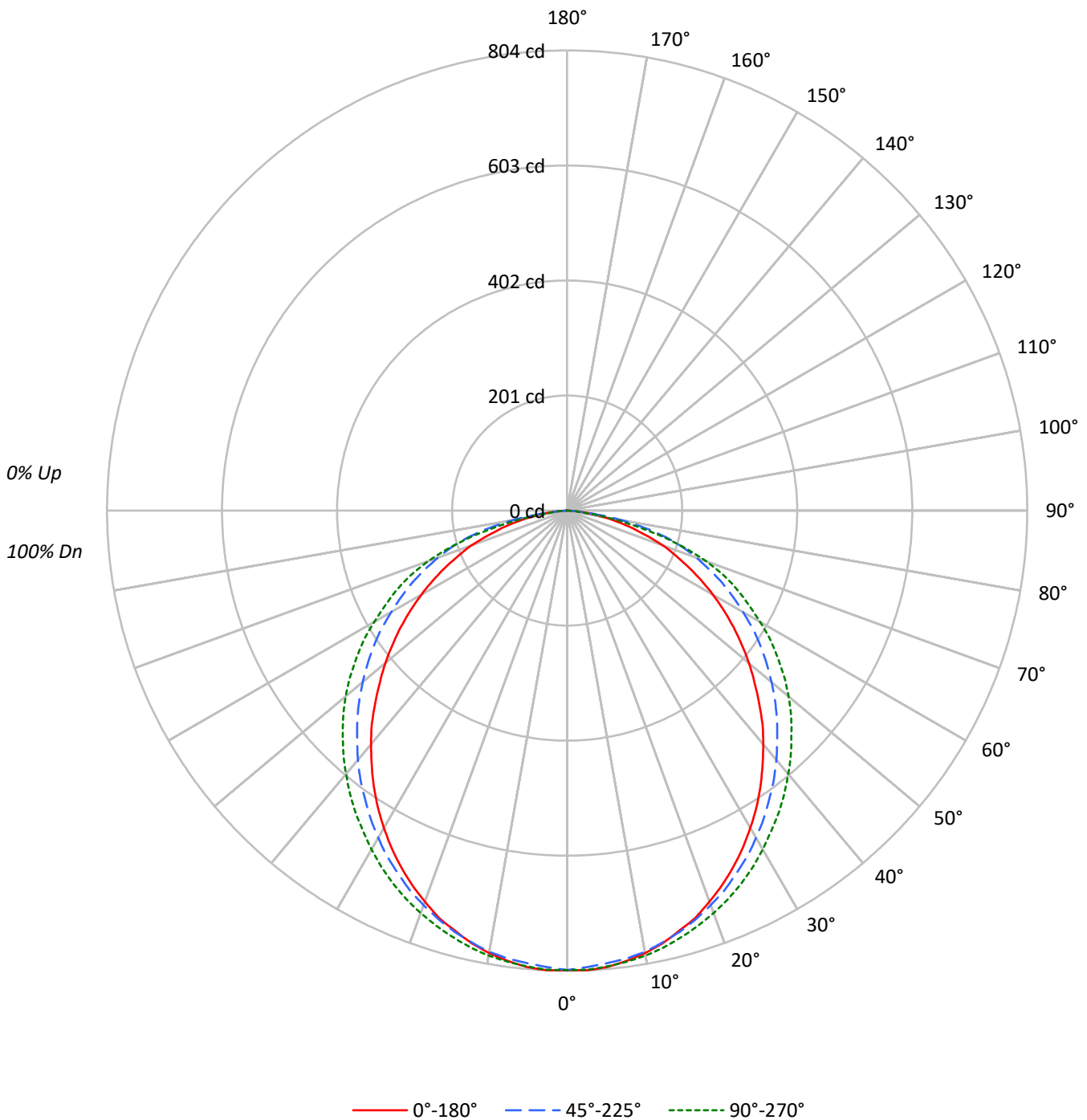
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2161	2161	2161
5°	2163	2145	2160
10°	2145	2139	2157
15°	2116	2122	2150
20°	2082	2101	2143
25°	2040	2076	2135
30°	1989	2051	2124
35°	1934	2022	2117
40°	1872	1998	2111
45°	1803	1973	2109
50°	1737	1951	2115
55°	1664	1936	2108
60°	1584	1908	2095
65°	1491	1903	2094
70°	1404	1886	2035
75°	1218	1843	1739
80°	986	1486	1158
85°	655	516	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.4
10°-20°	215.7	9.6
20°-30°	323.6	14.4
30°-40°	386.0	17.2
40°-50°	399.1	17.7
50°-60°	364.4	16.2
60°-70°	286.7	12.7
70°-80°	166.9	7.4
80°-90°	30.8	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°	615.1	27.4
0°-40°	1001.2	44.5
0°-60°	1764.6	78.5
0°-90°	2249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	801	798	794	801	800	76
15°	759	760	762	772	772	214
25°	687	690	699	716	719	316
35°	589	597	616	639	644	368
45°	474	490	518	548	554	366
55°	355	374	413	443	449	317
65°	234	259	299	322	329	233
75°	117	145	177	174	167	124
85°	21	30	17	13	11	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.9	802.9	802.9	802.9	802.9
2.5°	804.0	801.7	798.4	804.0	802.9
5°	800.6	798.4	793.9	800.6	799.5
7.5°	793.9	791.7	789.5	796.2	795.1
10°	785.0	783.9	782.8	790.6	789.5
12.5°	773.9	773.9	772.7	781.7	781.7
15°	759.4	760.5	761.6	771.6	771.6
17.5°	746.0	744.9	748.2	759.4	760.5
20°	727.0	729.3	733.7	747.1	748.2
22.5°	708.1	710.3	718.1	731.5	734.8
25°	686.9	690.2	699.2	715.9	719.2
27.5°	664.6	669.0	681.3	699.2	702.5
30°	640.1	646.7	660.1	680.2	683.5
32.5°	615.5	622.2	638.9	659.0	663.5
35°	588.8	596.6	615.5	638.9	644.5
37.5°	560.9	570.9	593.2	616.6	623.3
40°	533.0	544.2	568.7	593.2	601.0
42.5°	505.1	516.3	543.0	570.9	578.7
45°	473.9	489.5	518.5	547.5	554.2
47.5°	443.8	460.5	492.9	521.9	530.8
50°	414.8	431.5	466.1	496.2	505.1
52.5°	384.7	402.5	439.3	470.6	478.4
55°	354.6	373.6	412.6	442.7	449.4
57.5°	324.5	344.6	384.7	413.7	421.5
60°	294.4	315.6	354.6	383.6	389.2
62.5°	264.3	286.6	326.7	352.4	357.9
65°	234.2	258.7	298.8	322.3	328.9
67.5°	205.2	229.7	268.7	291.0	296.6
70°	178.4	200.7	239.7	256.5	258.7
72.5°	145.0	172.8	210.7	219.7	214.1
75°	117.1	145.0	177.3	174.0	167.3
77.5°	89.2	117.1	138.3	127.1	118.2
80°	63.6	91.4	95.9	79.2	74.7
82.5°	41.3	63.6	53.5	41.3	33.5
85°	21.2	30.1	16.7	13.4	11.2
87.5°	6.7	4.5	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)