

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: P275593

Luminaire Tested: **14CZ2-25-S-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275593
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2250.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

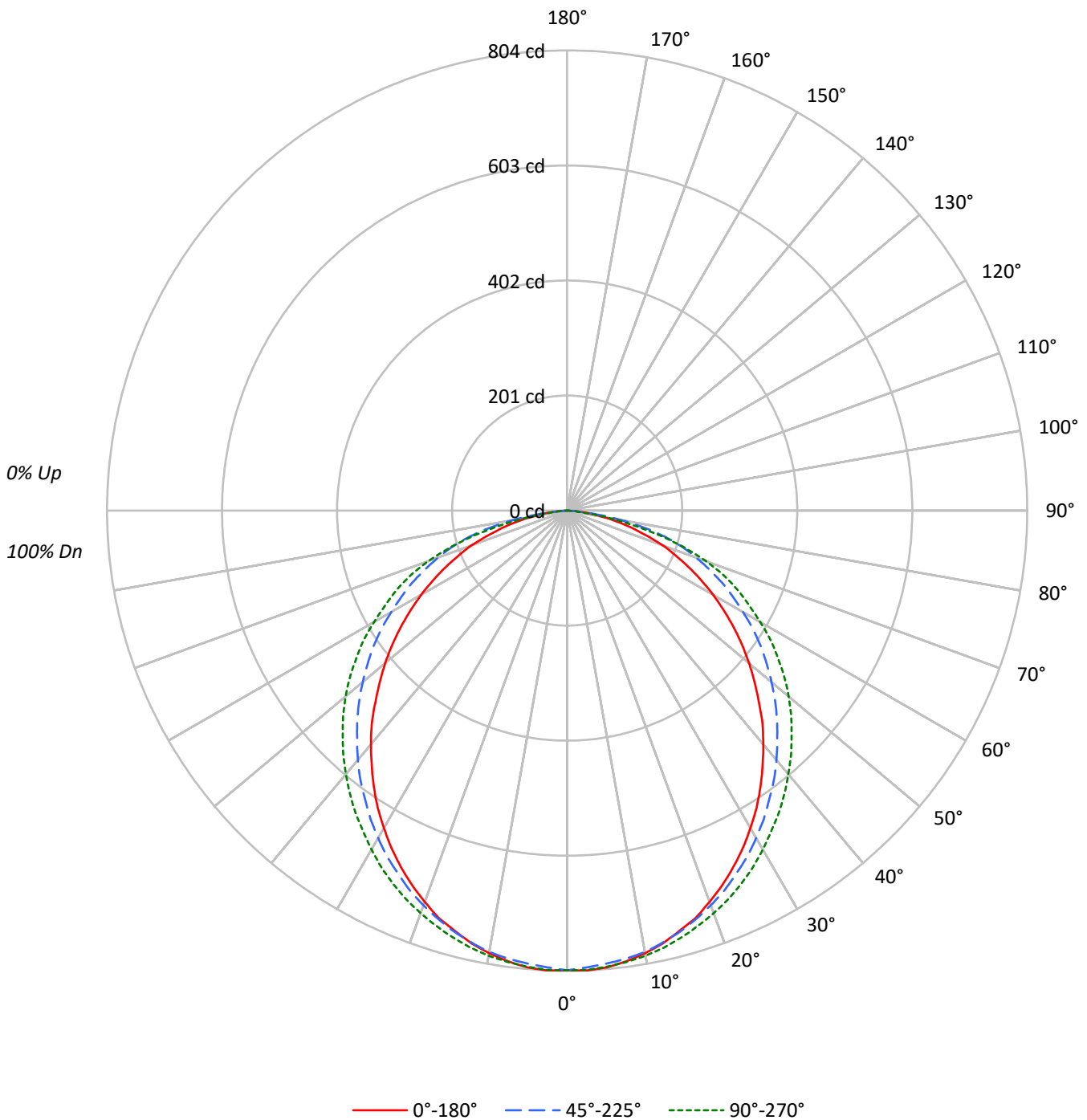
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2161	2161	2161
5°	2164	2146	2161
10°	2146	2140	2158
15°	2116	2123	2151
20°	2083	2102	2143
25°	2040	2077	2136
30°	1990	2052	2125
35°	1935	2023	2118
40°	1873	1998	2112
45°	1804	1974	2110
50°	1737	1952	2116
55°	1665	1937	2109
60°	1585	1910	2095
65°	1492	1904	2096
70°	1404	1887	2036
75°	1218	1844	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°	215.8	9.6
20°-30°	323.7	14.4
30°-40°	386.2	17.2
40°-50°	399.2	17.7
50°-60°	364.5	16.2
60°-70°	286.9	12.7
70°-80°	167.0	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°	615.4	27.4
0°-40°	1001.6	44.5
0°-60°	1765.4	78.5
0°-90°	2250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	801	799	794	801	800	76
15°	760	761	762	772	772	214
25°	687	690	700	716	720	316
35°	589	597	616	639	645	368
45°	474	490	519	548	554	366
55°	355	374	413	443	450	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°	803.2	803.2	803.2	803.2	803.2
2.5°	804.3	802.1	798.8	804.3	803.2
5°	801.0	798.8	794.3	801.0	799.9
7.5°	794.3	792.1	789.8	796.5	795.4
10°	785.4	784.2	783.1	790.9	789.8
12.5°	774.2	774.2	773.1	782.0	782.0
15°	759.7	760.8	761.9	772.0	772.0
17.5°	746.3	745.2	748.5	759.7	760.8
20°	727.4	729.6	734.0	747.4	748.5
22.5°	708.4	710.6	718.4	731.8	735.2
25°	687.2	690.5	699.5	716.2	719.5
27.5°	664.9	669.3	681.6	699.5	702.8
30°	640.3	647.0	660.4	680.5	683.8
32.5°	615.8	622.5	639.2	659.3	663.8
35°	589.0	596.8	615.8	639.2	644.8
37.5°	561.1	571.2	593.5	616.9	623.6
40°	533.2	544.4	568.9	593.5	601.3
42.5°	505.4	516.5	543.3	571.2	579.0
45°	474.1	489.7	518.7	547.7	554.4
47.5°	444.0	460.7	493.1	522.1	531.0
50°	415.0	431.7	466.3	496.4	505.4
52.5°	384.9	402.7	439.5	470.8	478.6
55°	354.8	373.7	412.8	442.9	449.6
57.5°	324.6	344.7	384.9	413.9	421.7
60°	294.5	315.7	354.8	383.8	389.3
62.5°	264.4	286.7	326.9	352.5	358.1
65°	234.3	258.8	299.0	322.4	329.1
67.5°	205.3	229.8	268.9	291.2	296.7
70°	178.5	200.8	239.8	256.6	258.8
72.5°	145.0	172.9	210.8	219.8	214.2
75°	117.1	145.0	177.4	174.0	167.3
77.5°	89.2	117.1	138.3	127.2	118.3
80°	63.6	91.5	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)