

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: P277226

Luminaire Tested: **22CZ2-24HE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2338.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

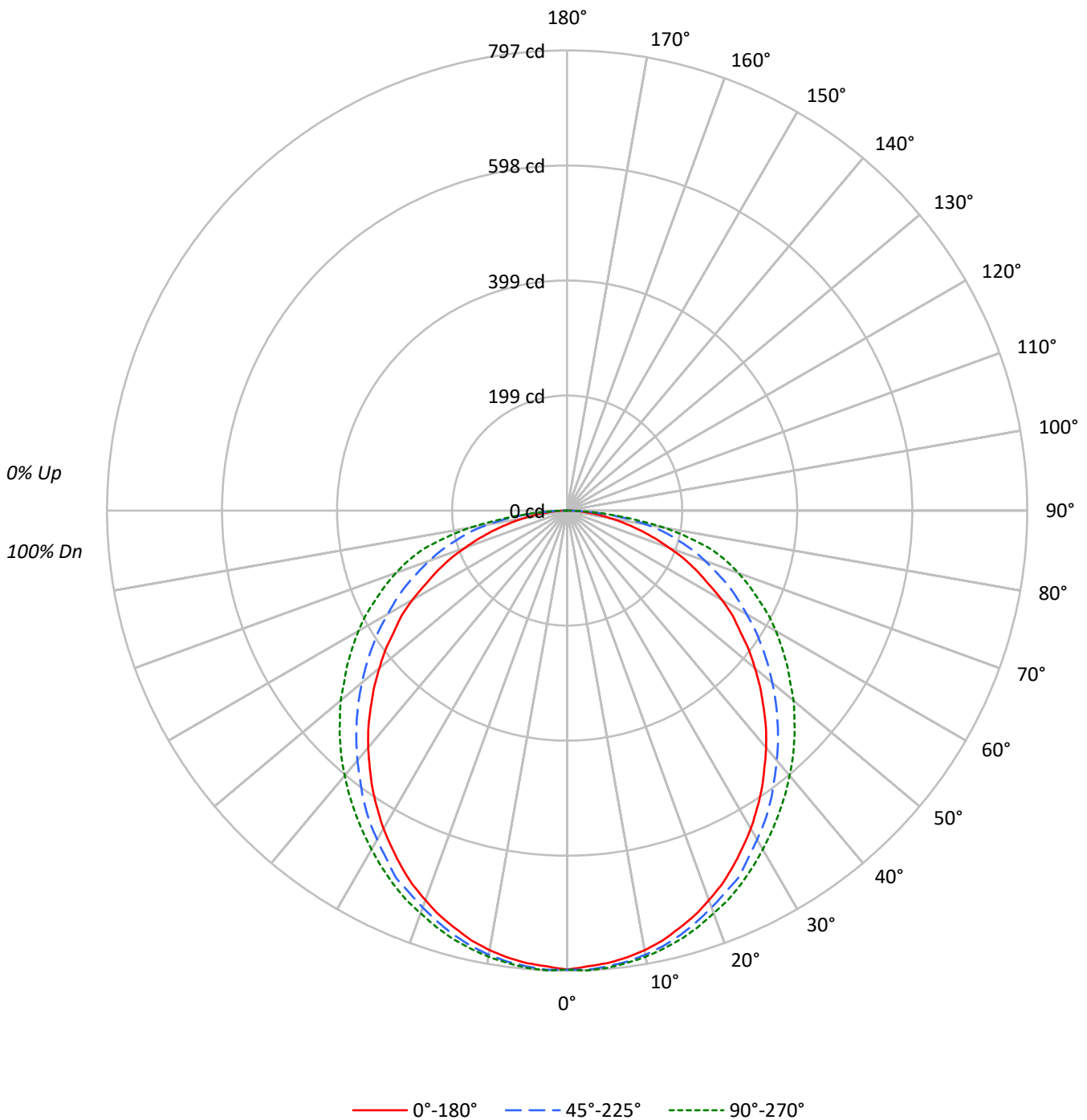
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2139	2139	2139
5°	2126	2141	2148
10°	2112	2135	2144
15°	2086	2118	2138
20°	2056	2095	2125
25°	2019	2084	2118
30°	1977	2045	2105
35°	1931	2018	2101
40°	1883	1984	2106
45°	1830	1961	2119
50°	1777	1941	2143
55°	1716	1932	2181
60°	1666	1932	2248
65°	1582	1963	2329
70°	1475	2001	2480
75°	1352	2069	2679
80°	1176	2157	2639
85°	1031	1917	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.2
10°-20°	214.1	9.2
20°-30°	321.5	13.7
30°-40°	384.1	16.4
40°-50°	399.4	17.1
50°-60°	370.2	15.8
60°-70°	303.7	13.0
70°-80°	205.3	8.8
80°-90°	64.5	2.8
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°	610.8	26.1
0°-40°	994.9	42.6
0°-60°	1764.6	75.5
0°-90°	2338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	787	788	793	794	795	75
15°	749	752	760	765	767	211
25°	680	686	702	710	713	313
35°	588	596	614	633	640	367
45°	481	490	515	545	557	371
55°	366	377	412	449	465	329
65°	248	262	308	349	366	246
75°	130	152	199	239	258	138
85°	33	46	62	69	68	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.0	795.0	795.0	795.0	795.0
2.5°	790.4	792.7	796.1	797.3	797.3
5°	786.9	788.1	792.7	793.8	795.0
7.5°	781.2	783.5	788.1	789.2	790.4
10°	773.1	775.4	781.2	783.5	784.6
12.5°	762.8	765.1	772.0	775.4	776.6
15°	748.9	752.4	760.4	765.1	767.4
17.5°	735.1	738.6	746.6	753.5	755.8
20°	717.9	725.9	731.7	740.9	742.0
22.5°	700.6	705.2	715.6	724.8	729.4
25°	679.9	685.7	701.8	709.8	713.3
27.5°	658.1	666.1	678.8	691.4	696.0
30°	636.2	642.0	658.1	673.0	677.6
32.5°	612.0	620.1	637.4	652.3	659.2
35°	587.9	595.9	614.3	632.7	639.7
37.5°	561.4	570.6	589.0	610.9	620.1
40°	536.1	543.0	564.9	591.3	599.4
42.5°	509.7	517.7	540.7	569.5	578.7
45°	480.9	490.1	515.4	545.3	556.8
47.5°	453.3	462.5	490.1	520.0	533.8
50°	424.5	436.0	463.6	498.1	512.0
52.5°	396.9	407.3	438.3	474.0	486.6
55°	365.8	377.3	411.9	448.7	464.8
57.5°	340.5	348.6	386.6	424.5	440.6
60°	309.5	319.8	358.9	399.2	417.6
62.5°	276.1	293.4	333.6	375.0	393.5
65°	248.5	262.3	308.3	348.6	365.8
67.5°	219.7	234.7	279.6	322.1	341.7
70°	187.5	207.1	254.3	296.8	315.2
72.5°	158.8	179.5	227.8	269.2	288.8
75°	130.0	151.9	199.0	239.3	257.7
77.5°	102.4	126.5	172.6	203.6	215.1
80°	75.9	98.9	139.2	161.1	170.3
82.5°	52.9	72.5	102.4	113.9	116.2
85°	33.4	46.0	62.1	69.0	67.9
87.5°	15.0	18.4	23.0	25.3	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)