

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: P277389

Luminaire Tested: **22CZ2-24HE-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 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: 2198.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

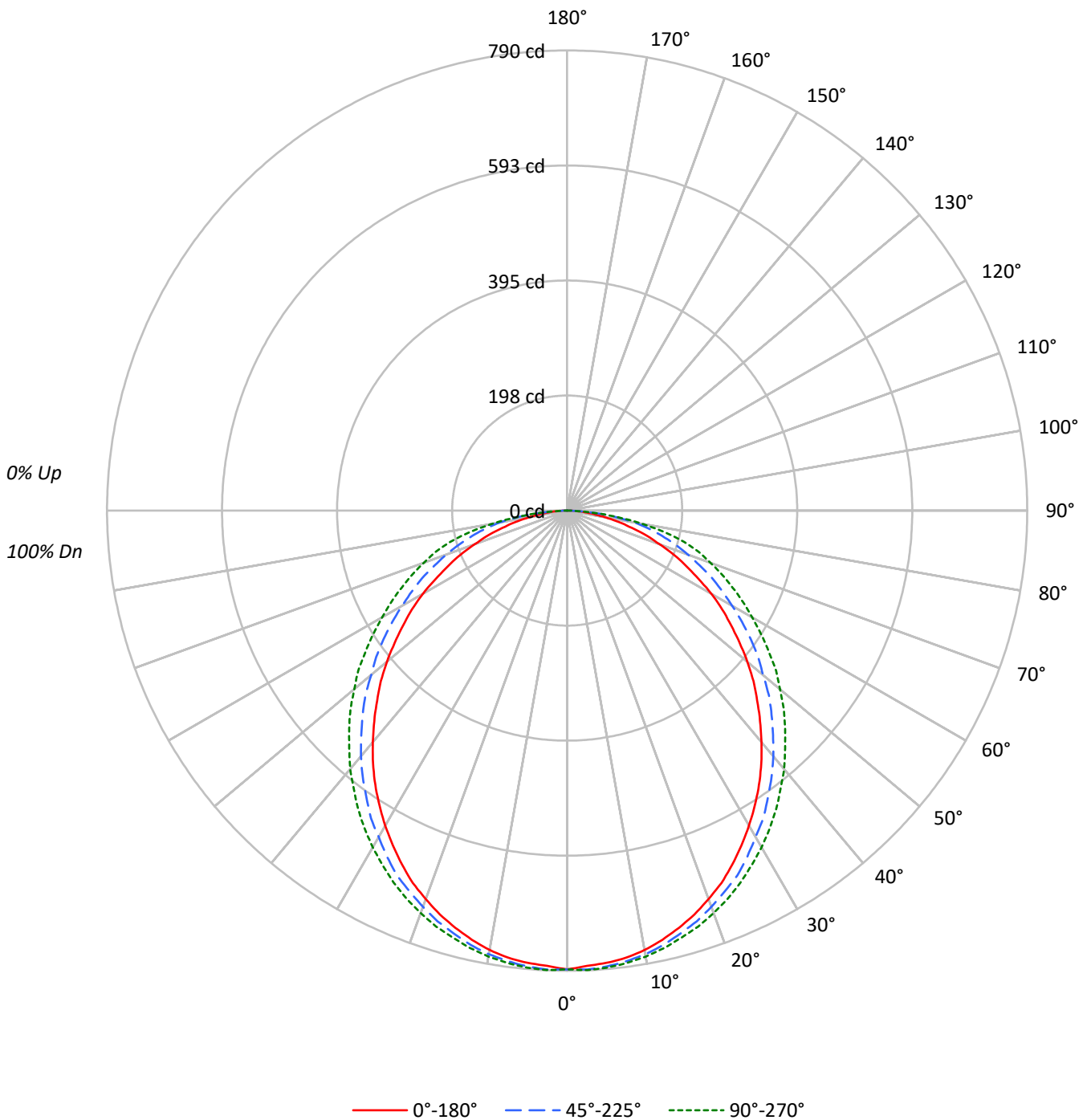
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	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	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2119	2119	2119
5°	2105	2122	2128
10°	2093	2113	2124
15°	2066	2094	2114
20°	2032	2073	2106
25°	1991	2052	2092
30°	1941	2011	2074
35°	1887	1974	2055
40°	1823	1935	2035
45°	1756	1889	2014
50°	1692	1837	1997
55°	1612	1804	1982
60°	1540	1760	1976
65°	1436	1750	1998
70°	1323	1735	2057
75°	1195	1759	2165
80°	1034	1812	2035
85°	855	1519	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.4
10°-20°	212.0	9.6
20°-30°	317.2	14.4
30°-40°	375.6	17.1
40°-50°	382.8	17.4
50°-60°	343.1	15.6
60°-70°	268.6	12.2
70°-80°	173.2	7.9
80°-90°	51.2	2.3
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°	603.6	27.5
0°-40°	979.2	44.5
0°-60°	1705.0	77.6
0°-90°	2198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	779	782	786	787	788	74
15°	742	746	752	758	759	209
25°	671	677	691	700	704	309
35°	574	582	601	619	626	359
45°	462	472	496	522	529	356
55°	344	355	385	411	422	308
65°	226	239	275	302	314	224
75°	115	132	169	198	208	123
85°	28	38	49	49	49	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	787.6	787.6	787.6	787.6	787.6
2.5°	782.5	784.5	788.6	789.7	789.7
5°	779.4	781.5	785.6	786.6	787.6
7.5°	774.3	775.3	780.4	782.5	783.5
10°	766.1	768.1	773.3	776.3	777.4
12.5°	754.8	757.9	764.0	768.1	769.2
15°	741.5	745.6	751.7	757.9	758.9
17.5°	727.1	731.2	739.4	746.6	748.6
20°	709.7	714.8	724.0	732.2	735.3
22.5°	692.2	696.3	707.6	717.9	721.0
25°	670.7	676.9	691.2	700.4	704.5
27.5°	648.1	655.3	669.7	682.0	686.1
30°	624.6	631.7	647.1	662.5	667.6
32.5°	599.9	608.1	626.6	642.0	647.1
35°	574.3	581.5	601.0	619.4	625.6
37.5°	547.6	553.8	576.4	595.8	602.0
40°	518.9	527.1	550.7	573.3	579.4
42.5°	490.2	499.4	523.0	547.6	553.8
45°	461.5	471.7	496.4	522.0	529.2
47.5°	433.8	442.0	469.7	494.3	504.6
50°	404.1	412.3	438.9	466.6	476.9
52.5°	373.3	384.6	413.3	440.0	452.3
55°	343.6	354.8	384.6	411.2	422.5
57.5°	315.9	325.1	355.9	383.6	394.8
60°	286.1	294.3	327.1	356.9	367.1
62.5°	254.3	266.6	300.5	328.2	340.5
65°	225.6	238.9	274.8	301.5	313.8
67.5°	199.0	211.3	246.1	274.8	288.2
70°	168.2	184.6	220.5	249.2	261.5
72.5°	143.6	157.9	194.9	223.6	236.9
75°	114.9	132.3	169.2	197.9	208.2
77.5°	91.3	108.7	143.6	166.1	171.3
80°	66.7	84.1	116.9	128.2	131.3
82.5°	45.1	61.5	84.1	87.2	88.2
85°	27.7	37.9	49.2	49.2	49.2
87.5°	13.3	15.4	17.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)