

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: P277223

Luminaire Tested: **22CZ2-24HE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277223
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-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2218.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

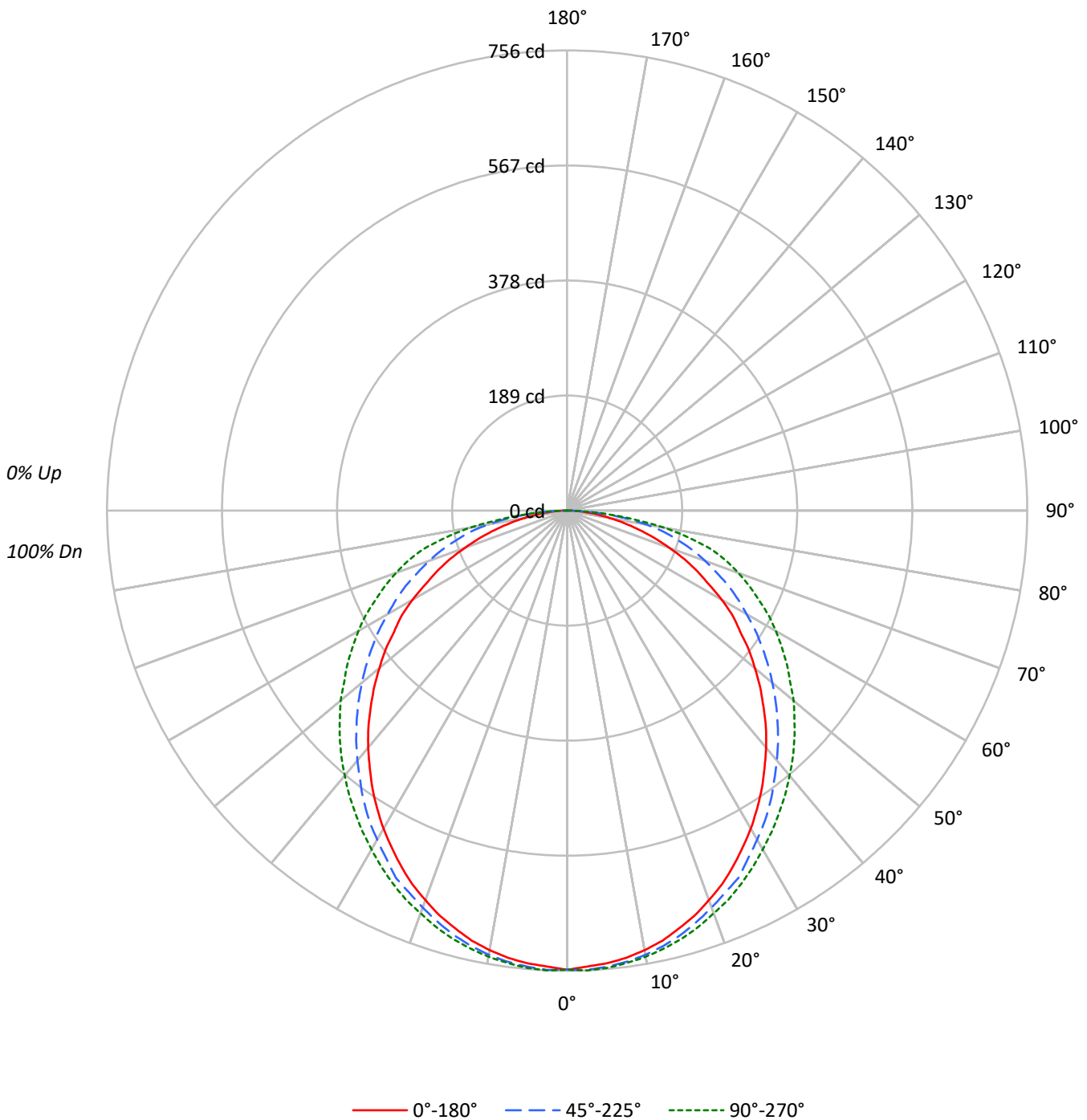
Input Watts (W): 17.67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2030	2030	2030
5°	2016	2031	2037
10°	2004	2025	2034
15°	1979	2010	2028
20°	1950	1988	2016
25°	1915	1977	2009
30°	1875	1940	1997
35°	1832	1915	1993
40°	1787	1883	1997
45°	1736	1861	2010
50°	1686	1841	2033
55°	1628	1833	2069
60°	1580	1833	2132
65°	1501	1862	2210
70°	1400	1898	2353
75°	1282	1963	2542
80°	1116	2047	2503
85°	979	1819	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.2
10°-20°	203.1	9.2
20°-30°	305.0	13.7
30°-40°	364.4	16.4
40°-50°	378.9	17.1
50°-60°	351.2	15.8
60°-70°	288.1	13.0
70°-80°	194.7	8.8
80°-90°	61.2	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°	579.4	26.1
0°-40°	943.8	42.6
0°-60°	1674.0	75.5
0°-90°	2218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	746	748	752	753	754	71
15°	710	714	721	726	728	200
25°	645	650	666	673	677	297
35°	558	565	583	600	607	349
45°	456	465	489	517	528	352
55°	347	358	391	426	441	312
65°	236	249	292	331	347	233
75°	123	144	189	227	244	131
85°	32	44	59	66	64	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754.2	754.2	754.2	754.2	754.2
2.5°	749.8	752.0	755.3	756.3	756.3
5°	746.5	747.6	752.0	753.1	754.2
7.5°	741.1	743.2	747.6	748.7	749.8
10°	733.4	735.6	741.1	743.2	744.3
12.5°	723.6	725.8	732.3	735.6	736.7
15°	710.5	713.8	721.4	725.8	728.0
17.5°	697.4	700.7	708.3	714.9	717.1
20°	681.0	688.7	694.1	702.9	704.0
22.5°	664.7	669.0	678.9	687.6	692.0
25°	645.0	650.5	665.8	673.4	676.7
27.5°	624.3	631.9	643.9	655.9	660.3
30°	603.5	609.0	624.3	638.5	642.8
32.5°	580.6	588.3	604.6	618.8	625.4
35°	557.7	565.3	582.8	600.3	606.8
37.5°	532.6	541.3	558.8	579.5	588.3
40°	508.6	515.1	535.9	561.0	568.6
42.5°	483.5	491.1	513.0	540.2	549.0
45°	456.2	464.9	488.9	517.3	528.2
47.5°	430.0	438.7	464.9	493.3	506.4
50°	402.7	413.6	439.8	472.6	485.7
52.5°	376.5	386.4	415.8	449.7	461.7
55°	347.1	358.0	390.7	425.6	440.9
57.5°	323.1	330.7	366.7	402.7	418.0
60°	293.6	303.4	340.5	378.7	396.2
62.5°	261.9	278.3	316.5	355.8	373.3
65°	235.7	248.8	292.5	330.7	347.1
67.5°	208.5	222.6	265.2	305.6	324.1
70°	177.9	196.5	241.2	281.6	299.0
72.5°	150.6	170.3	216.1	255.4	273.9
75°	123.3	144.1	188.8	227.0	244.5
77.5°	97.1	120.1	163.7	193.2	204.1
80°	72.0	93.9	132.1	152.8	161.5
82.5°	50.2	68.8	97.1	108.0	110.2
85°	31.7	43.7	58.9	65.5	64.4
87.5°	14.2	17.5	21.8	24.0	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)