

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: P277524

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1292.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

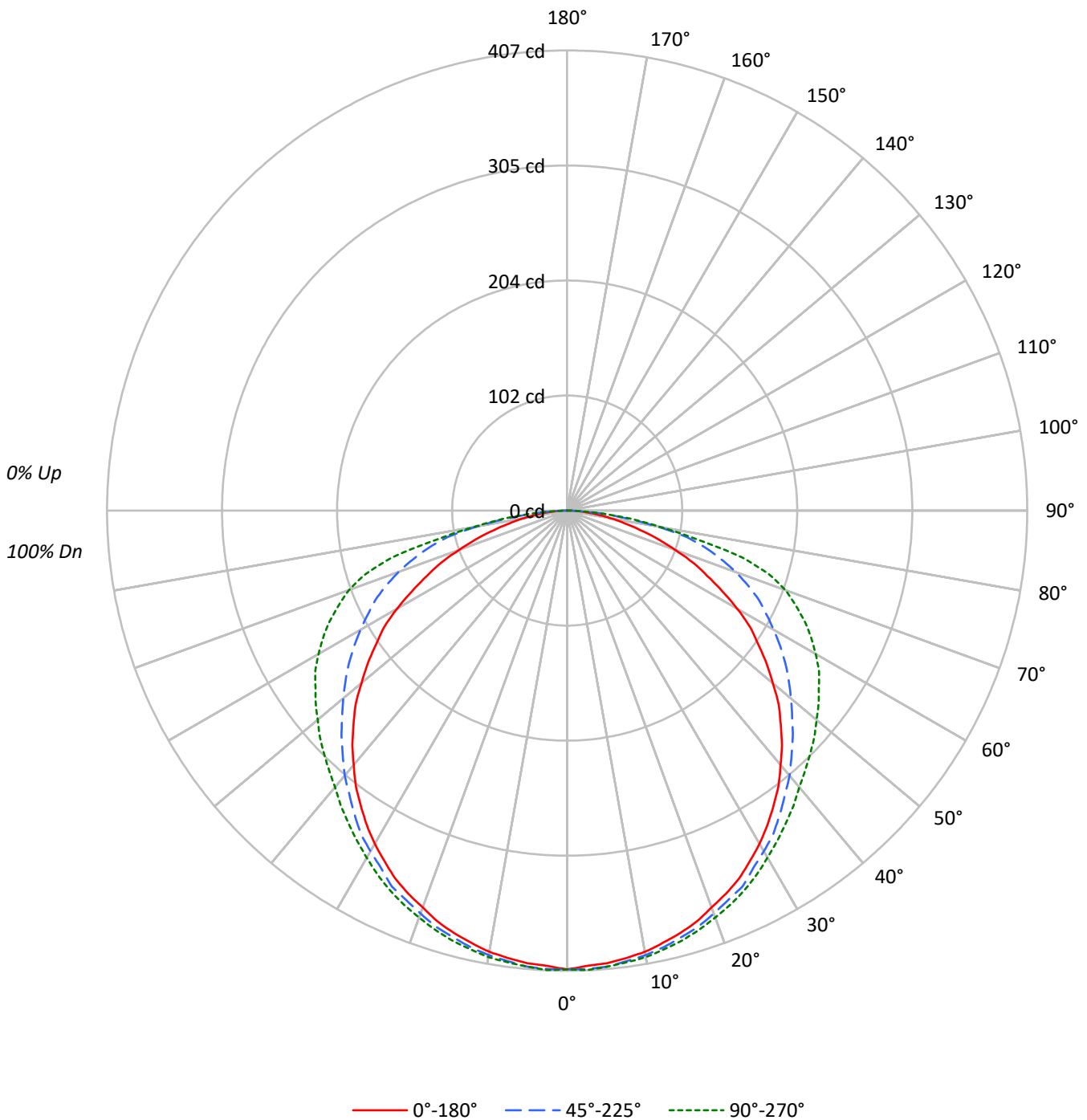
Input Watts (W): 17.910963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1092	1092	1092
5°	1086	1094	1094
10°	1083	1091	1096
15°	1078	1088	1096
20°	1070	1086	1097
25°	1067	1089	1101
30°	1057	1081	1102
35°	1046	1077	1108
40°	1032	1075	1122
45°	1016	1074	1157
50°	995	1082	1206
55°	967	1106	1275
60°	936	1136	1366
65°	872	1192	1477
70°	800	1249	1615
75°	702	1314	1670
80°	604	1252	1311
85°	528	911	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	3.0
10°-20°	110.2	8.5
20°-30°	168.2	13.0
30°-40°	205.3	15.9
40°-50°	219.5	17.0
50°-60°	211.9	16.4
60°-70°	182.4	14.1
70°-80°	123.4	9.6
80°-90°	32.6	2.5
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°	316.8	24.5
0°-40°	522.1	40.4
0°-60°	953.6	73.8
0°-90°	1292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	402	403	405	405	405	38
15°	387	388	391	392	394	109
25°	359	361	367	369	371	165
35°	318	321	328	335	337	199
45°	267	272	282	296	304	206
55°	206	213	236	260	272	185
65°	137	150	187	217	232	136
75°	68	89	126	152	161	72
85°	17	24	30	30	32	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	405.8	405.8	405.8	405.8	405.8
2.5°	403.0	403.9	405.8	405.8	406.8
5°	402.0	403.0	404.9	404.9	404.9
7.5°	399.2	400.1	402.0	403.0	403.0
10°	396.3	397.3	399.2	400.1	401.1
12.5°	391.6	392.5	395.4	397.3	397.3
15°	386.8	387.8	390.6	392.5	393.5
17.5°	381.1	383.0	385.9	387.8	388.7
20°	373.5	375.4	379.2	382.1	383.0
22.5°	366.9	368.8	372.6	375.4	377.3
25°	359.3	361.2	366.9	368.8	370.7
27.5°	349.8	351.7	356.4	360.2	363.1
30°	340.3	342.2	347.9	352.6	354.5
32.5°	329.8	332.7	339.3	343.1	346.0
35°	318.4	321.3	327.9	334.6	337.4
37.5°	307.0	309.8	316.5	325.1	328.9
40°	293.7	297.5	306.0	317.4	319.3
42.5°	281.3	286.1	293.7	307.0	311.7
45°	267.1	271.8	282.3	296.5	304.1
47.5°	253.8	258.5	269.9	287.0	296.5
50°	237.6	244.3	258.5	278.5	288.0
52.5°	222.4	228.1	247.1	269.0	280.4
55°	206.2	212.9	235.7	259.5	271.8
57.5°	192.0	197.7	223.4	250.0	264.2
60°	173.9	181.5	211.0	239.5	253.8
62.5°	154.9	166.3	198.6	228.1	243.3
65°	136.9	150.2	187.2	216.7	231.9
67.5°	120.7	135.0	173.0	204.3	218.6
70°	101.7	119.8	158.7	189.1	205.3
72.5°	84.6	104.5	142.6	173.0	187.2
75°	67.5	89.3	126.4	152.1	160.6
77.5°	52.3	73.2	108.4	116.0	116.9
80°	39.0	58.0	80.8	81.7	84.6
82.5°	26.6	40.9	52.3	57.0	58.0
85°	17.1	23.8	29.5	30.4	32.3
87.5°	7.6	8.6	10.5	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)