

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: P277563

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277563
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-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1581.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

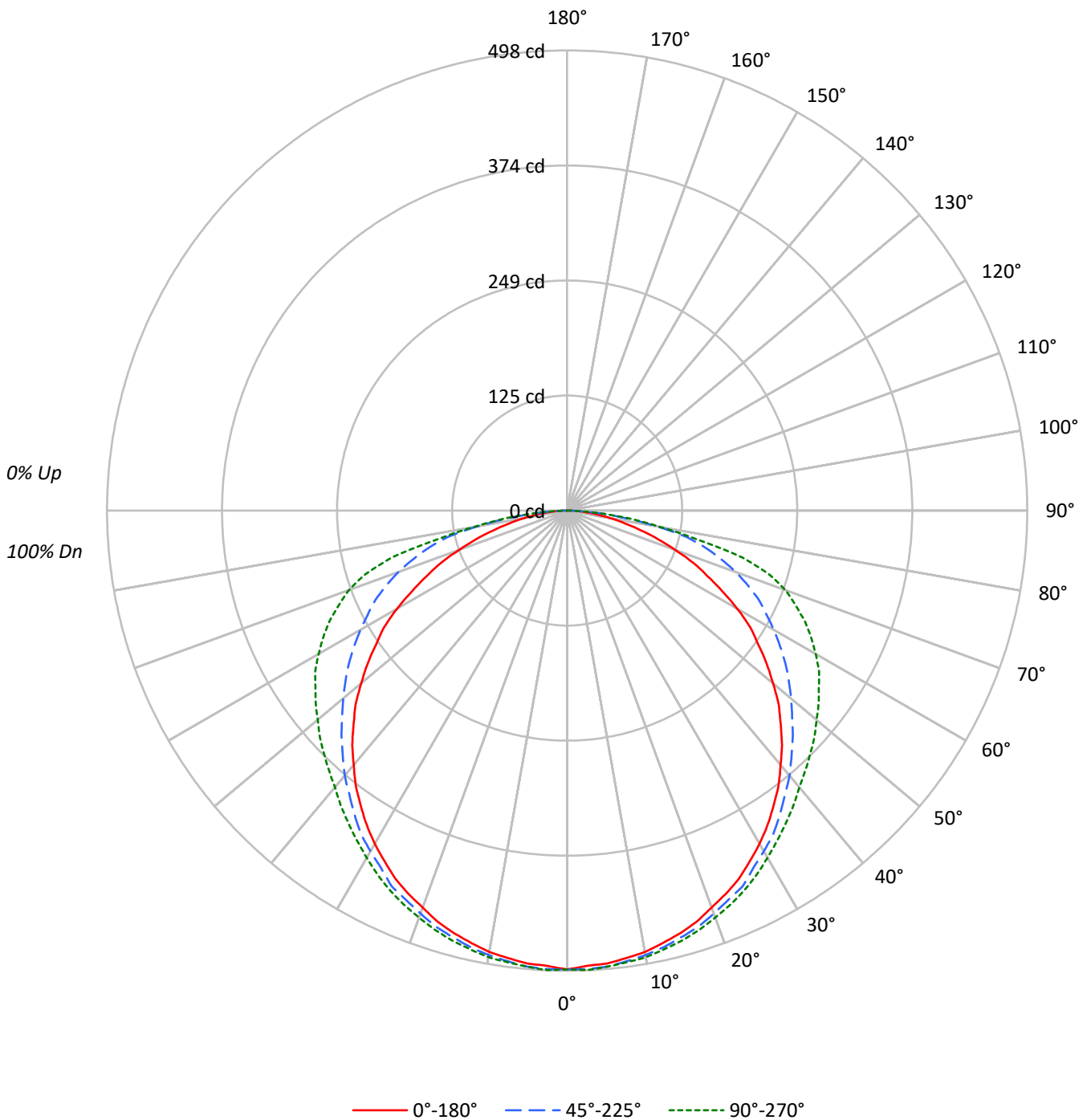
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1336	1336	1336
5°	1329	1338	1338
10°	1325	1335	1341
15°	1319	1332	1341
20°	1309	1329	1342
25°	1305	1333	1347
30°	1294	1323	1348
35°	1280	1318	1356
40°	1263	1316	1373
45°	1244	1314	1416
50°	1217	1324	1475
55°	1184	1353	1560
60°	1145	1390	1671
65°	1067	1459	1807
70°	979	1528	1976
75°	859	1608	2044
80°	739	1533	1604
85°	645	1115	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	3.0
10°-20°	134.9	8.5
20°-30°	205.8	13.0
30°-40°	251.3	15.9
40°-50°	268.7	17.0
50°-60°	259.3	16.4
60°-70°	223.2	14.1
70°-80°	151.0	9.6
80°-90°	39.9	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°	387.6	24.5
0°-40°	638.9	40.4
0°-60°	1166.9	73.8
0°-90°	1581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	497	497	497	497	497	
5°	492	493	496	496	496	47
15°	473	474	478	480	482	134
25°	440	442	449	451	454	202
35°	390	393	401	409	413	244
45°	327	333	345	363	372	252
55°	252	260	288	318	333	226
65°	168	184	229	265	284	167
75°	83	109	155	186	197	89
85°	21	29	36	37	40	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	496.6	496.6	496.6	496.6	496.6
2.5°	493.1	494.3	496.6	496.6	497.8
5°	492.0	493.1	495.5	495.5	495.5
7.5°	488.5	489.6	492.0	493.1	493.1
10°	485.0	486.2	488.5	489.6	490.8
12.5°	479.2	480.3	483.8	486.2	486.2
15°	473.4	474.5	478.0	480.3	481.5
17.5°	466.4	468.7	472.2	474.5	475.7
20°	457.1	459.4	464.1	467.5	468.7
22.5°	448.9	451.3	455.9	459.4	461.7
25°	439.6	442.0	448.9	451.3	453.6
27.5°	428.0	430.3	436.1	440.8	444.3
30°	416.4	418.7	425.7	431.5	433.8
32.5°	403.6	407.1	415.2	419.9	423.3
35°	389.6	393.1	401.3	409.4	412.9
37.5°	375.7	379.2	387.3	397.8	402.4
40°	359.4	364.0	374.5	388.5	390.8
42.5°	344.3	350.1	359.4	375.7	381.5
45°	326.8	332.6	345.4	362.9	372.2
47.5°	310.5	316.3	330.3	351.2	362.9
50°	290.8	298.9	316.3	340.8	352.4
52.5°	272.2	279.1	302.4	329.1	343.1
55°	252.4	260.5	288.4	317.5	332.6
57.5°	234.9	241.9	273.3	305.9	323.3
60°	212.8	222.1	258.2	293.1	310.5
62.5°	189.6	203.5	243.1	279.1	297.7
65°	167.5	183.8	229.1	265.2	283.8
67.5°	147.7	165.2	211.7	250.1	267.5
70°	124.4	146.5	194.2	231.4	251.2
72.5°	103.5	127.9	174.5	211.7	229.1
75°	82.6	109.3	154.7	186.1	196.6
77.5°	64.0	89.6	132.6	141.9	143.1
80°	47.7	70.9	98.9	100.0	103.5
82.5°	32.6	50.0	64.0	69.8	70.9
85°	20.9	29.1	36.1	37.2	39.5
87.5°	9.3	10.5	12.8	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)