

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: P277531

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277531
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: 22CZ2-29HE-RDP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1660.0 lumens
Efficiency: N/A
Efficacy: 76.5 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

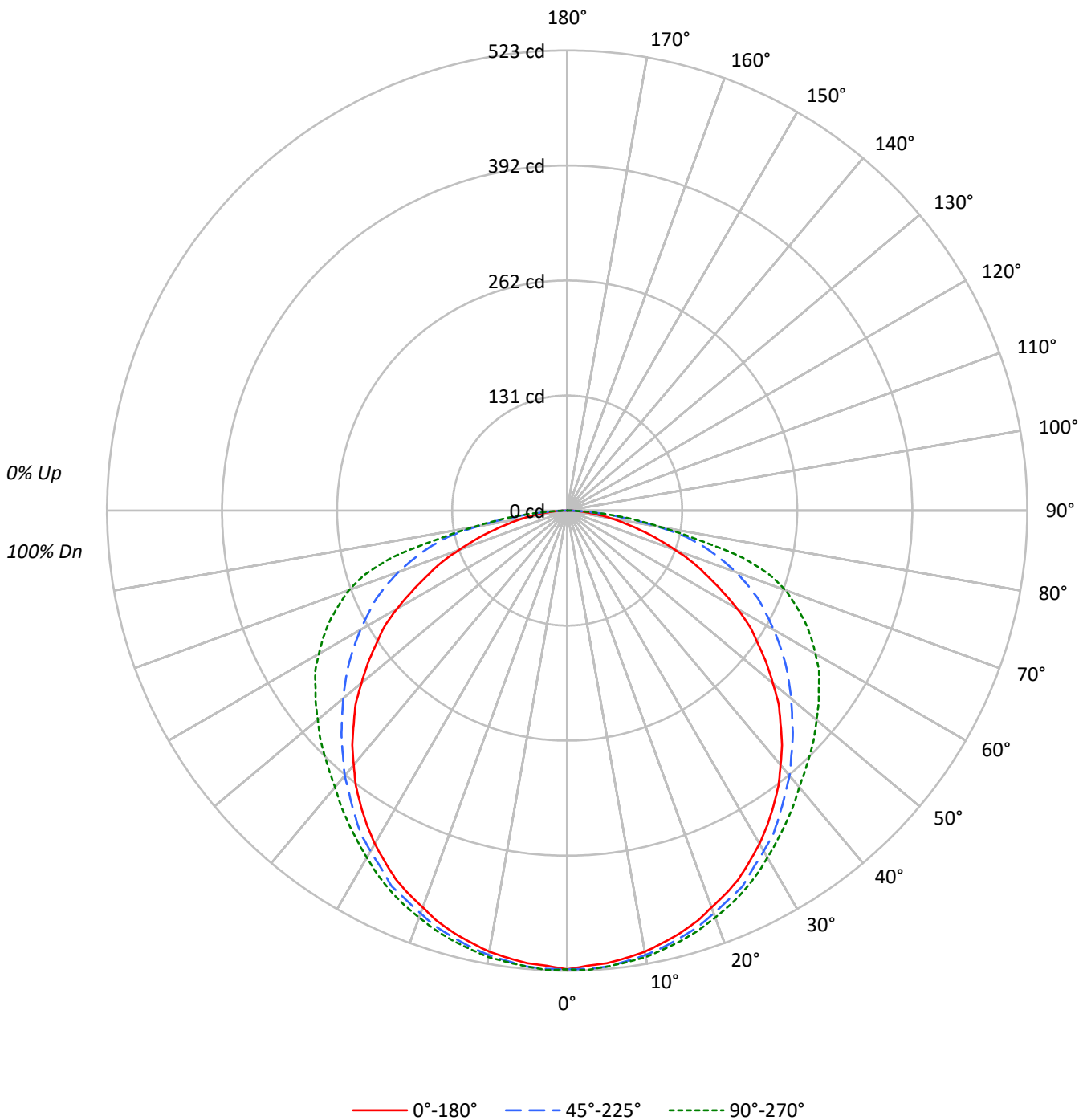
Input Watts (W): 21.706944
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1403	1403	1403
5°	1395	1405	1405
10°	1391	1401	1408
15°	1385	1398	1409
20°	1374	1395	1409
25°	1371	1400	1414
30°	1359	1389	1415
35°	1344	1384	1424
40°	1325	1381	1441
45°	1306	1380	1487
50°	1278	1391	1549
55°	1243	1421	1639
60°	1203	1459	1755
65°	1119	1532	1897
70°	1028	1604	2076
75°	901	1688	2146
80°	776	1609	1684
85°	679	1170	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.0
10°-20°	141.6	8.5
20°-30°	216.1	13.0
30°-40°	263.8	15.9
40°-50°	282.1	17.0
50°-60°	272.3	16.4
60°-70°	234.4	14.1
70°-80°	158.6	9.6
80°-90°	41.8	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°	407.0	24.5
0°-40°	670.8	40.4
0°-60°	1225.2	73.8
0°-90°	1660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	521	521	521	521	521	
5°	517	518	520	520	520	49
15°	497	498	502	504	506	140
25°	462	464	471	474	476	212
35°	409	413	421	430	434	256
45°	343	349	363	381	391	265
55°	265	274	303	333	349	237
65°	176	193	241	278	298	175
75°	87	115	162	195	206	93
85°	22	30	38	39	42	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	521.4	521.4	521.4	521.4	521.4
2.5°	517.8	519.0	521.4	521.4	522.7
5°	516.6	517.8	520.2	520.2	520.2
7.5°	512.9	514.1	516.6	517.8	517.8
10°	509.2	510.4	512.9	514.1	515.3
12.5°	503.1	504.3	508.0	510.4	510.4
15°	497.0	498.2	501.9	504.3	505.6
17.5°	489.7	492.1	495.8	498.2	499.5
20°	479.9	482.4	487.2	490.9	492.1
22.5°	471.4	473.8	478.7	482.4	484.8
25°	461.6	464.0	471.4	473.8	476.3
27.5°	449.4	451.8	457.9	462.8	466.5
30°	437.2	439.6	446.9	453.1	455.5
32.5°	423.7	427.4	436.0	440.8	444.5
35°	409.1	412.8	421.3	429.8	433.5
37.5°	394.4	398.1	406.6	417.6	422.5
40°	377.3	382.2	393.2	407.9	410.3
42.5°	361.5	367.6	377.3	394.4	400.5
45°	343.1	349.3	362.7	381.0	390.8
47.5°	326.0	332.2	346.8	368.8	381.0
50°	305.3	313.8	332.2	357.8	370.0
52.5°	285.8	293.1	317.5	345.6	360.2
55°	265.0	273.5	302.8	333.4	349.3
57.5°	246.7	254.0	287.0	321.2	339.5
60°	223.5	233.2	271.1	307.7	326.0
62.5°	199.0	213.7	255.2	293.1	312.6
65°	175.8	192.9	240.6	278.4	298.0
67.5°	155.1	173.4	222.3	262.5	280.9
70°	130.7	153.9	203.9	243.0	263.8
72.5°	108.7	134.3	183.2	222.3	240.6
75°	86.7	114.8	162.4	195.4	206.4
77.5°	67.2	94.0	139.2	149.0	150.2
80°	50.1	74.5	103.8	105.0	108.7
82.5°	34.2	52.5	67.2	73.3	74.5
85°	22.0	30.5	37.9	39.1	41.5
87.5°	9.8	11.0	13.4	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)