

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: P277630

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277630
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: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1747.0 lumens
Efficiency: N/A
Efficacy: 68.8 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

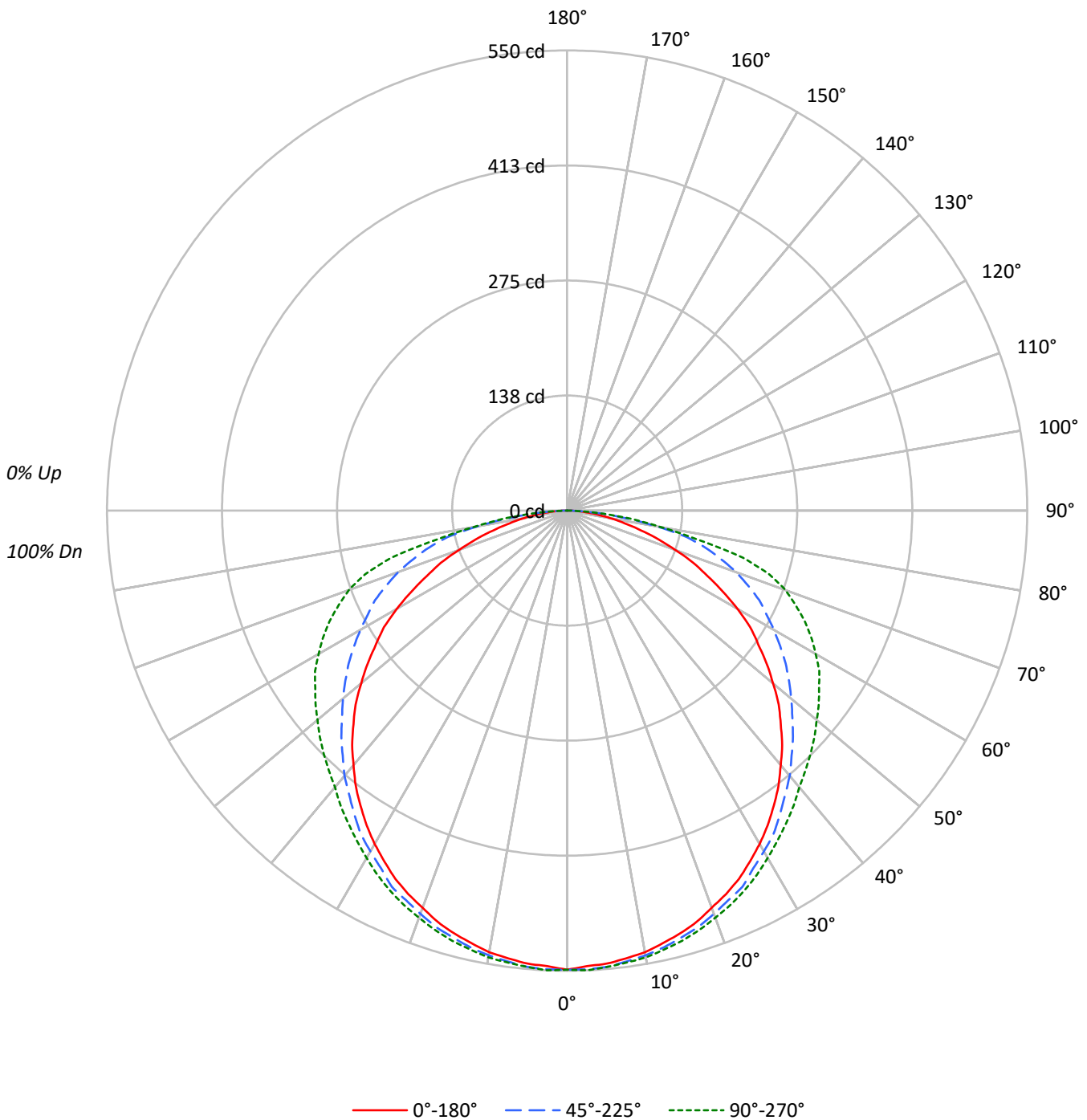
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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	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°	1477	1477	1477
5°	1468	1479	1479
10°	1464	1475	1482
15°	1457	1472	1482
20°	1446	1468	1483
25°	1442	1473	1488
30°	1430	1462	1490
35°	1414	1457	1499
40°	1395	1454	1517
45°	1374	1453	1565
50°	1345	1464	1630
55°	1308	1495	1725
60°	1266	1535	1847
65°	1179	1612	1997
70°	1082	1688	2184
75°	948	1777	2258
80°	817	1692	1773
85°	713	1229	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.0
10°-20°	149.0	8.5
20°-30°	227.4	13.0
30°-40°	277.7	15.9
40°-50°	296.9	17.0
50°-60°	286.5	16.4
60°-70°	246.7	14.1
70°-80°	166.9	9.6
80°-90°	44.0	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°	428.3	24.5
0°-40°	706.0	40.4
0°-60°	1289.4	73.8
0°-90°	1747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	544	545	548	548	548	52
15°	523	524	528	531	532	148
25°	486	488	496	499	501	224
35°	430	434	443	452	456	269
45°	361	368	382	401	411	279
55°	279	288	319	351	368	250
65°	185	203	253	293	314	184
75°	91	121	171	206	217	98
85°	23	32	40	41	44	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.8	548.8	548.8	548.8	548.8
2.5°	544.9	546.2	548.8	548.8	550.0
5°	543.6	544.9	547.5	547.5	547.5
7.5°	539.8	541.1	543.6	544.9	544.9
10°	535.9	537.2	539.8	541.1	542.3
12.5°	529.5	530.8	534.6	537.2	537.2
15°	523.1	524.3	528.2	530.8	532.1
17.5°	515.3	517.9	521.8	524.3	525.6
20°	505.1	507.6	512.8	516.6	517.9
22.5°	496.1	498.6	503.8	507.6	510.2
25°	485.8	488.4	496.1	498.6	501.2
27.5°	472.9	475.5	481.9	487.1	490.9
30°	460.1	462.7	470.4	476.8	479.4
32.5°	446.0	449.8	458.8	463.9	467.8
35°	430.5	434.4	443.4	452.4	456.2
37.5°	415.1	419.0	428.0	439.5	444.7
40°	397.1	402.3	413.8	429.2	431.8
42.5°	380.4	386.8	397.1	415.1	421.5
45°	361.1	367.6	381.7	401.0	411.3
47.5°	343.1	349.6	365.0	388.1	401.0
50°	321.3	330.3	349.6	376.6	389.4
52.5°	300.7	308.4	334.1	363.7	379.1
55°	278.9	287.9	318.7	350.8	367.6
57.5°	259.6	267.3	302.0	338.0	357.3
60°	235.2	245.5	285.3	323.9	343.1
62.5°	209.5	224.9	268.6	308.4	329.0
65°	185.1	203.1	253.2	293.0	313.6
67.5°	163.2	182.5	233.9	276.3	295.6
70°	137.5	161.9	214.6	255.7	277.6
72.5°	114.4	141.4	192.8	233.9	253.2
75°	91.2	120.8	170.9	205.6	217.2
77.5°	70.7	99.0	146.5	156.8	158.1
80°	52.7	78.4	109.2	110.5	114.4
82.5°	36.0	55.3	70.7	77.1	78.4
85°	23.1	32.1	39.8	41.1	43.7
87.5°	10.3	11.6	14.1	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)