

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: P277535

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277535
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1968.0 lumens
Efficiency: N/A
Efficacy: 74.7 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

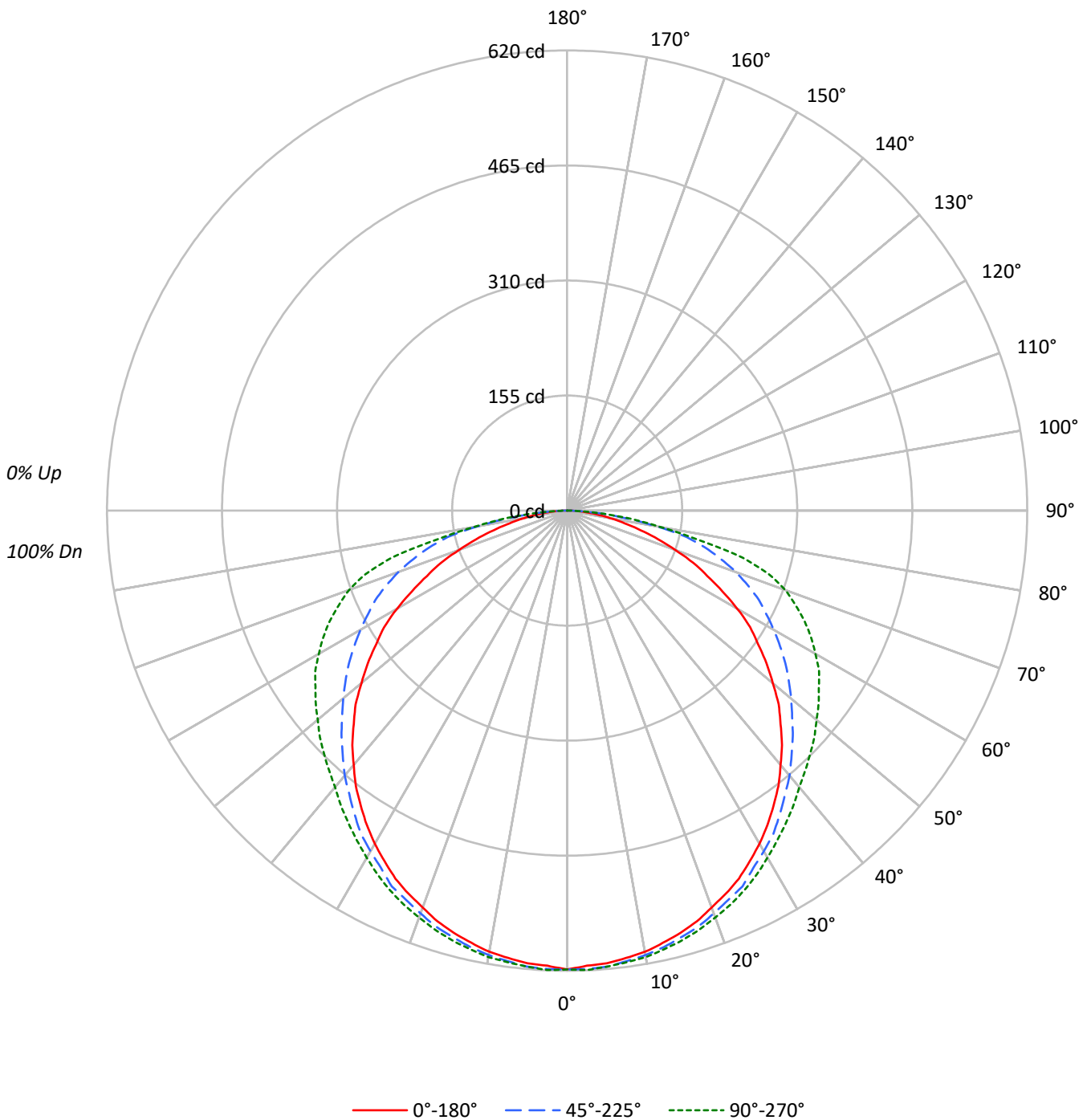
Input Watts (W): 26.335368
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1664	1664	1664
5°	1654	1666	1666
10°	1650	1661	1669
15°	1641	1658	1670
20°	1629	1654	1671
25°	1625	1659	1676
30°	1611	1647	1678
35°	1593	1641	1688
40°	1572	1638	1709
45°	1548	1636	1763
50°	1515	1649	1837
55°	1474	1684	1943
60°	1426	1730	2080
65°	1328	1816	2249
70°	1219	1902	2460
75°	1069	2001	2544
80°	921	1908	1996
85°	806	1386	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	3.0
10°-20°	167.9	8.5
20°-30°	256.2	13.0
30°-40°	312.8	15.9
40°-50°	334.4	17.0
50°-60°	322.8	16.4
60°-70°	277.9	14.1
70°-80°	188.0	9.6
80°-90°	49.6	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°	482.5	24.5
0°-40°	795.3	40.4
0°-60°	1452.5	73.8
0°-90°	1968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	612	614	617	617	617	58
15°	589	591	595	598	599	166
25°	547	550	559	562	565	252
35°	485	489	500	510	514	303
45°	407	414	430	452	463	314
55°	314	324	359	395	414	282
65°	208	229	285	330	353	207
75°	103	136	192	232	245	110
85°	26	36	45	46	49	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	618.2	618.2	618.2	618.2	618.2
2.5°	613.8	615.3	618.2	618.2	619.6
5°	612.4	613.8	616.7	616.7	616.7
7.5°	608.0	609.5	612.4	613.8	613.8
10°	603.7	605.2	608.0	609.5	610.9
12.5°	596.5	597.9	602.3	605.2	605.2
15°	589.2	590.7	595.0	597.9	599.4
17.5°	580.5	583.4	587.8	590.7	592.1
20°	569.0	571.9	577.6	582.0	583.4
22.5°	558.8	561.7	567.5	571.9	574.8
25°	547.2	550.1	558.8	561.7	564.6
27.5°	532.8	535.7	542.9	548.7	553.0
30°	518.3	521.2	529.9	537.1	540.0
32.5°	502.4	506.7	516.8	522.6	527.0
35°	485.0	489.3	499.5	509.6	513.9
37.5°	467.6	472.0	482.1	495.1	500.9
40°	447.4	453.1	466.2	483.5	486.4
42.5°	428.5	435.8	447.4	467.6	474.9
45°	406.8	414.1	430.0	451.7	463.3
47.5°	386.5	393.8	411.2	437.2	451.7
50°	361.9	372.1	393.8	424.2	438.7
52.5°	338.8	347.5	376.4	409.7	427.1
55°	314.2	324.3	359.0	395.2	414.1
57.5°	292.4	301.1	340.2	380.8	402.5
60°	264.9	276.5	321.4	364.8	386.5
62.5°	236.0	253.4	302.6	347.5	370.6
65°	208.5	228.7	285.2	330.1	353.2
67.5°	183.9	205.6	263.5	311.3	333.0
70°	154.9	182.4	241.8	288.1	312.7
72.5°	128.8	159.3	217.2	263.5	285.2
75°	102.8	136.1	192.5	231.6	244.7
77.5°	79.6	111.5	165.0	176.6	178.1
80°	59.4	88.3	123.1	124.5	128.8
82.5°	40.5	62.3	79.6	86.9	88.3
85°	26.1	36.2	44.9	46.3	49.2
87.5°	11.6	13.0	15.9	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)