

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: P277508

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277508
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: 22CZ2-39HE-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2321.0 lumens
Efficiency: N/A
Efficacy: 77.3 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

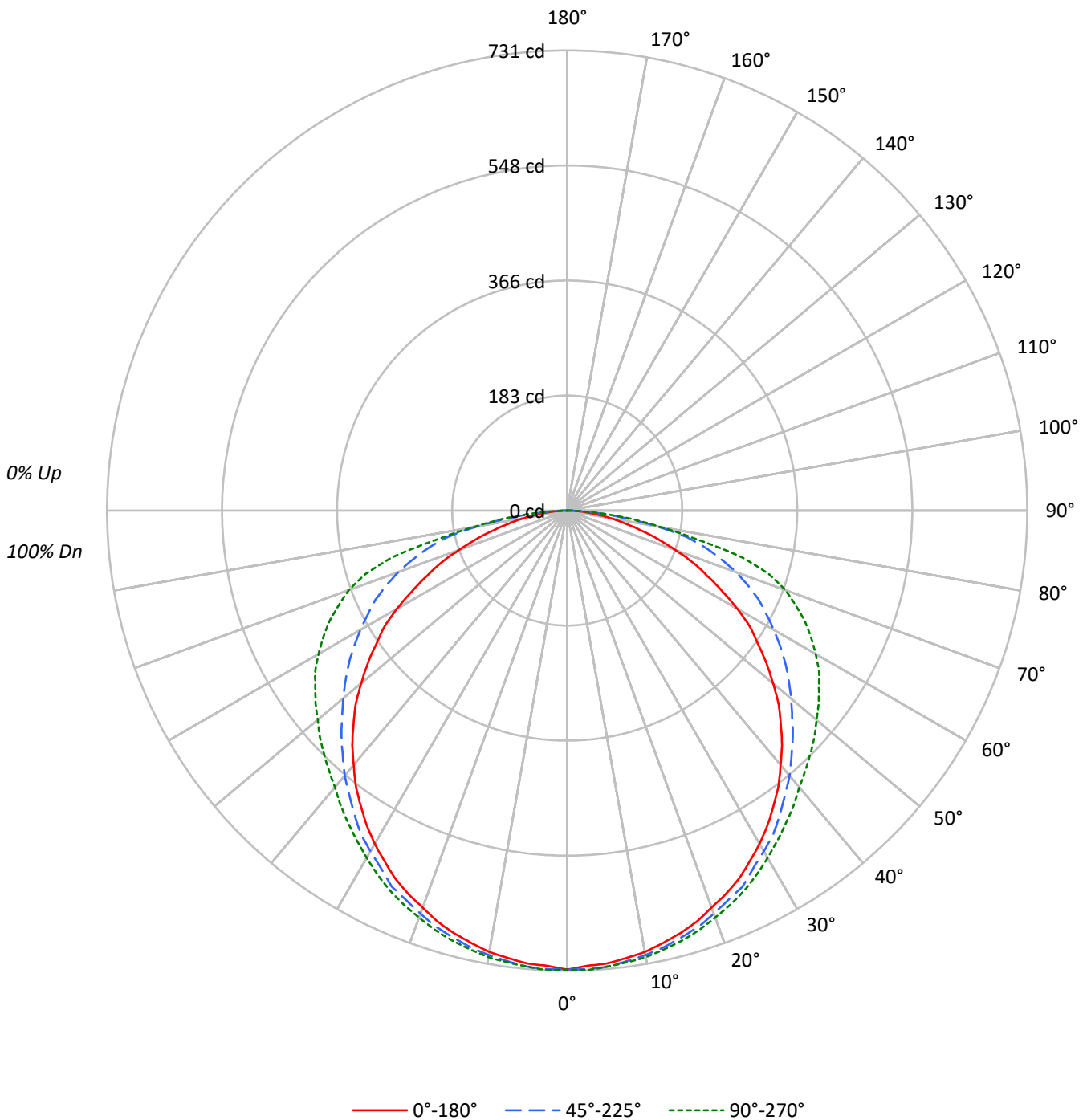
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1962	1962	1962
5°	1951	1965	1965
10°	1946	1959	1969
15°	1936	1955	1969
20°	1922	1951	1970
25°	1916	1957	1977
30°	1899	1942	1979
35°	1879	1935	1991
40°	1853	1931	2015
45°	1826	1930	2079
50°	1787	1944	2166
55°	1738	1986	2291
60°	1682	2040	2454
65°	1566	2142	2653
70°	1437	2243	2902
75°	1260	2361	3001
80°	1085	2249	2356
85°	948	1633	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.0
10°-20°	198.0	8.5
20°-30°	302.1	13.0
30°-40°	368.9	15.9
40°-50°	394.4	17.0
50°-60°	380.7	16.4
60°-70°	327.7	14.1
70°-80°	221.7	9.6
80°-90°	58.5	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°	569.1	24.5
0°-40°	938.0	40.4
0°-60°	1713.1	73.8
0°-90°	2321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	722	724	727	727	727	69
15°	695	697	702	705	707	196
25°	645	649	659	662	666	297
35°	572	577	589	601	606	358
45°	480	488	507	533	546	370
55°	370	382	423	466	488	332
65°	246	270	336	389	417	245
75°	121	160	227	273	289	130
85°	31	43	53	55	58	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	729.1	729.1	729.1	729.1	729.1
2.5°	723.9	725.7	729.1	729.1	730.8
5°	722.2	723.9	727.4	727.4	727.4
7.5°	717.1	718.8	722.2	723.9	723.9
10°	712.0	713.7	717.1	718.8	720.5
12.5°	703.5	705.2	710.3	713.7	713.7
15°	694.9	696.6	701.7	705.2	706.9
17.5°	684.7	688.1	693.2	696.6	698.3
20°	671.0	674.4	681.3	686.4	688.1
22.5°	659.1	662.5	669.3	674.4	677.8
25°	645.4	648.8	659.1	662.5	665.9
27.5°	628.3	631.7	640.3	647.1	652.2
30°	611.3	614.7	624.9	633.5	636.9
32.5°	592.5	597.6	609.5	616.4	621.5
35°	572.0	577.1	589.1	601.0	606.1
37.5°	551.5	556.6	568.6	583.9	590.8
40°	527.6	534.4	549.8	570.3	573.7
42.5°	505.4	513.9	527.6	551.5	560.0
45°	479.8	488.3	507.1	532.7	546.4
47.5°	455.9	464.4	484.9	515.6	532.7
50°	426.9	438.8	464.4	500.3	517.3
52.5°	399.5	409.8	443.9	483.2	503.7
55°	370.5	382.5	423.4	466.1	488.3
57.5°	344.9	355.1	401.2	449.1	474.7
60°	312.5	326.1	379.0	430.3	455.9
62.5°	278.3	298.8	356.8	409.8	437.1
65°	245.9	269.8	336.4	389.3	416.6
67.5°	216.8	242.5	310.7	367.1	392.7
70°	182.7	215.1	285.1	339.8	368.8
72.5°	152.0	187.8	256.1	310.7	336.4
75°	121.2	160.5	227.1	273.2	288.6
77.5°	93.9	131.5	194.6	208.3	210.0
80°	70.0	104.2	145.1	146.8	152.0
82.5°	47.8	73.4	93.9	102.4	104.2
85°	30.7	42.7	52.9	54.6	58.1
87.5°	13.7	15.4	18.8	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)