

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: P277585

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277585
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-L82765-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: 2319.0 lumens
Efficiency: N/A
Efficacy: 77.4 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

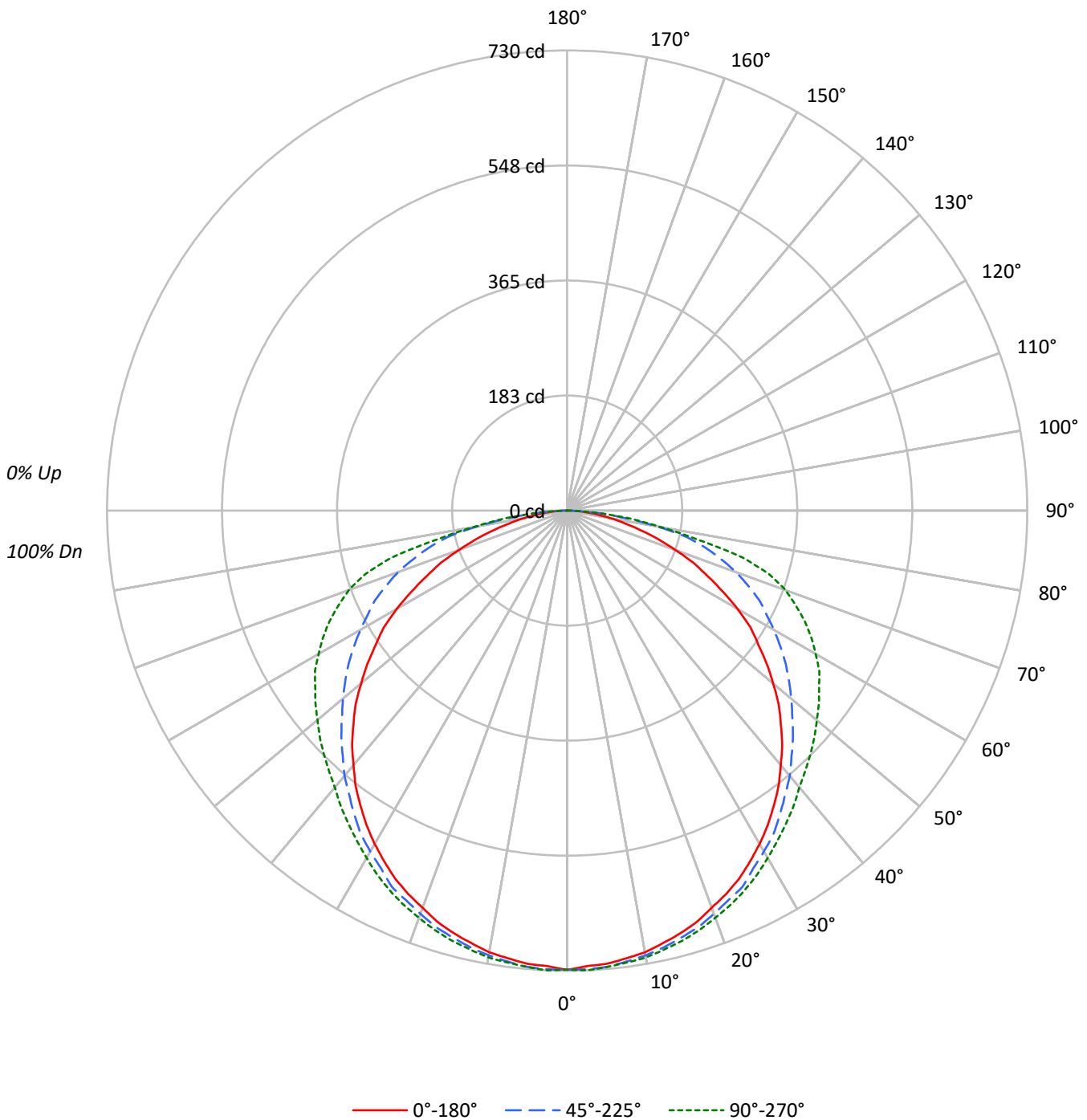
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1960	1960	1960
5°	1949	1963	1963
10°	1944	1958	1967
15°	1934	1953	1968
20°	1920	1949	1969
25°	1915	1955	1975
30°	1898	1940	1977
35°	1877	1934	1989
40°	1852	1930	2014
45°	1824	1928	2077
50°	1786	1942	2164
55°	1737	1985	2289
60°	1680	2038	2451
65°	1564	2140	2651
70°	1436	2242	2899
75°	1259	2359	2997
80°	1083	2247	2352
85°	948	1633	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.0
10°-20°	197.8	8.5
20°-30°	301.8	13.0
30°-40°	368.6	15.9
40°-50°	394.1	17.0
50°-60°	380.4	16.4
60°-70°	327.4	14.1
70°-80°	221.5	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°	568.6	24.5
0°-40°	937.1	40.4
0°-60°	1711.6	73.8
0°-90°	2319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	722	723	727	727	727	69
15°	694	696	701	705	706	196
25°	645	648	658	662	665	297
35°	572	577	589	600	606	358
45°	479	488	507	532	546	370
55°	370	382	423	466	488	332
65°	246	270	336	389	416	244
75°	121	160	227	273	288	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°	728.4	728.4	728.4	728.4	728.4
2.5°	723.3	725.0	728.4	728.4	730.1
5°	721.6	723.3	726.7	726.7	726.7
7.5°	716.5	718.2	721.6	723.3	723.3
10°	711.4	713.1	716.5	718.2	719.9
12.5°	702.8	704.6	709.7	713.1	713.1
15°	694.3	696.0	701.1	704.6	706.3
17.5°	684.1	687.5	692.6	696.0	697.7
20°	670.4	673.8	680.7	685.8	687.5
22.5°	658.5	661.9	668.7	673.8	677.3
25°	644.8	648.3	658.5	661.9	665.3
27.5°	627.8	631.2	639.7	646.6	651.7
30°	610.7	614.1	624.4	632.9	636.3
32.5°	592.0	597.1	609.0	615.8	621.0
35°	571.5	576.6	588.6	600.5	605.6
37.5°	551.0	556.1	568.1	583.4	590.3
40°	527.1	534.0	549.3	569.8	573.2
42.5°	505.0	513.5	527.1	551.0	559.5
45°	479.4	487.9	506.7	532.3	545.9
47.5°	455.5	464.0	484.5	515.2	532.3
50°	426.5	438.4	464.0	499.8	516.9
52.5°	399.2	409.4	443.5	482.8	503.3
55°	370.2	382.1	423.1	465.7	487.9
57.5°	344.6	354.8	400.9	448.7	474.3
60°	312.2	325.8	378.7	429.9	455.5
62.5°	278.1	298.5	356.5	409.4	436.7
65°	245.7	269.5	336.1	389.0	416.3
67.5°	216.7	242.2	310.5	366.8	392.4
70°	182.5	214.9	284.9	339.5	368.5
72.5°	151.8	187.7	255.9	310.5	336.1
75°	121.1	160.4	226.9	273.0	288.3
77.5°	93.8	131.4	194.5	208.1	209.8
80°	69.9	104.1	145.0	146.7	151.8
82.5°	47.8	73.4	93.8	102.4	104.1
85°	30.7	42.6	52.9	54.6	58.0
87.5°	13.6	15.4	18.8	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)