

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: P277584

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277584
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-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2254.0 lumens
Efficiency: N/A
Efficacy: 74.8 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

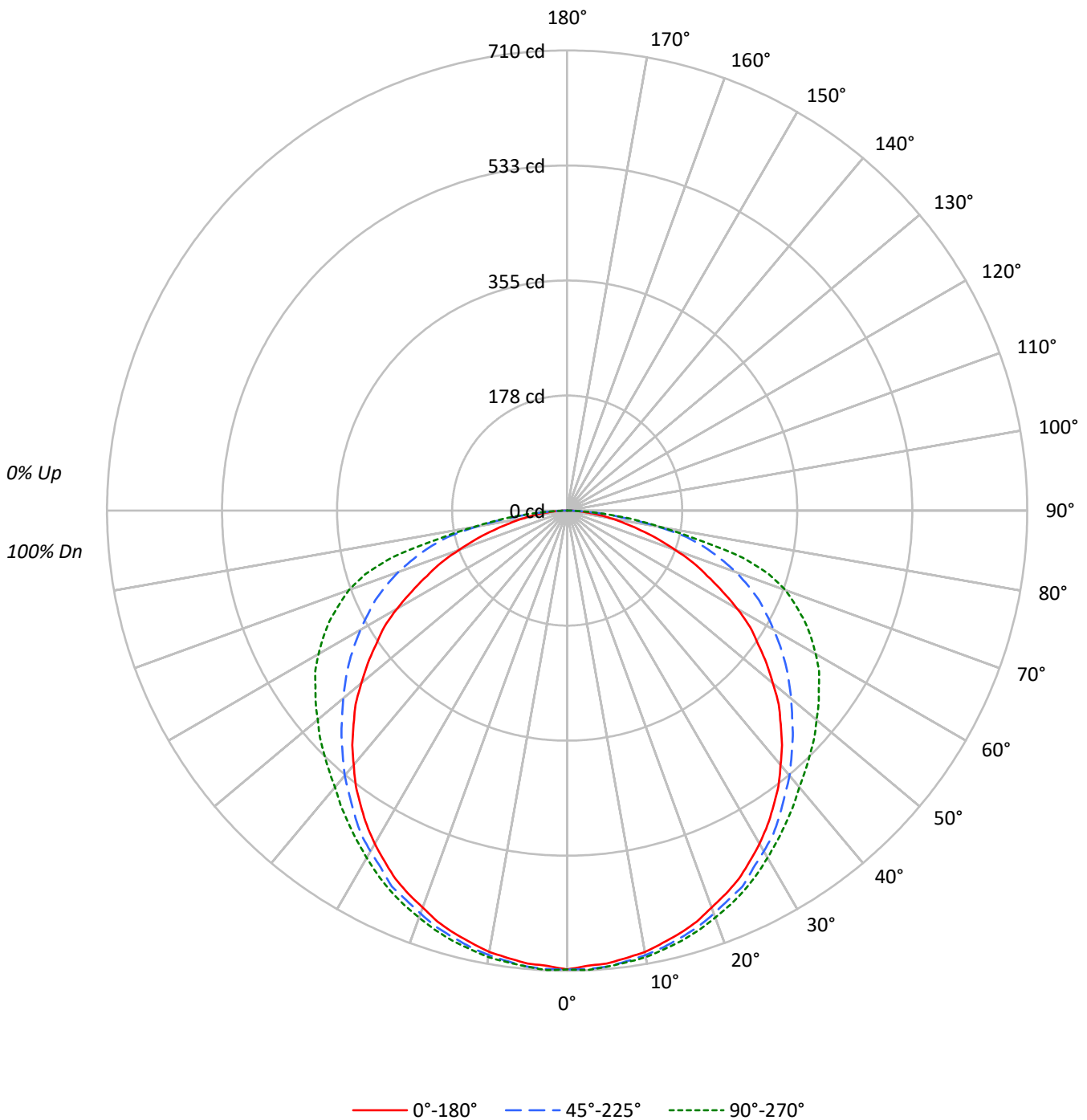
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1905	1905	1905
5°	1895	1908	1908
10°	1889	1903	1912
15°	1880	1899	1913
20°	1866	1895	1914
25°	1861	1900	1920
30°	1844	1886	1922
35°	1825	1879	1934
40°	1800	1875	1957
45°	1773	1874	2019
50°	1735	1888	2103
55°	1688	1929	2225
60°	1633	1981	2383
65°	1521	2080	2576
70°	1396	2179	2818
75°	1224	2293	2913
80°	1054	2183	2287
85°	920	1587	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.0
10°-20°	192.3	8.5
20°-30°	293.4	13.0
30°-40°	358.2	15.9
40°-50°	383.0	17.0
50°-60°	369.7	16.4
60°-70°	318.3	14.1
70°-80°	215.3	9.6
80°-90°	56.8	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°	552.7	24.5
0°-40°	910.9	40.4
0°-60°	1663.6	73.8
0°-90°	2254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	701	703	706	706	706	67
15°	675	676	682	685	686	190
25°	627	630	640	643	647	288
35°	556	560	572	584	589	348
45°	466	474	492	517	531	360
55°	360	371	411	453	474	322
65°	239	262	327	378	405	237
75°	118	156	220	265	280	126
85°	30	42	51	53	56	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.0	708.0	708.0	708.0	708.0
2.5°	703.0	704.7	708.0	708.0	709.7
5°	701.4	703.0	706.4	706.4	706.4
7.5°	696.4	698.1	701.4	703.0	703.0
10°	691.4	693.1	696.4	698.1	699.7
12.5°	683.1	684.8	689.8	693.1	693.1
15°	674.9	676.5	681.5	684.8	686.5
17.5°	664.9	668.2	673.2	676.5	678.2
20°	651.6	655.0	661.6	666.6	668.2
22.5°	640.0	643.4	650.0	655.0	658.3
25°	626.8	630.1	640.0	643.4	646.7
27.5°	610.2	613.5	621.8	628.4	633.4
30°	593.6	596.9	606.9	615.2	618.5
32.5°	575.4	580.3	592.0	598.6	603.6
35°	555.5	560.4	572.1	583.7	588.6
37.5°	535.6	540.5	552.2	567.1	573.7
40°	512.4	519.0	533.9	553.8	557.1
42.5°	490.8	499.1	512.4	535.6	543.9
45°	465.9	474.2	492.5	517.3	530.6
47.5°	442.7	451.0	470.9	500.8	517.3
50°	414.5	426.1	451.0	485.8	502.4
52.5°	388.0	398.0	431.1	469.3	489.1
55°	359.8	371.4	411.2	452.7	474.2
57.5°	334.9	344.9	389.7	436.1	461.0
60°	303.4	316.7	368.1	417.8	442.7
62.5°	270.3	290.2	346.5	398.0	424.5
65°	238.8	262.0	326.7	378.1	404.6
67.5°	210.6	235.5	301.8	356.5	381.4
70°	177.4	208.9	276.9	330.0	358.2
72.5°	147.6	182.4	248.7	301.8	326.7
75°	117.7	155.9	220.5	265.3	280.2
77.5°	91.2	127.7	189.0	202.3	203.9
80°	68.0	101.1	140.9	142.6	147.6
82.5°	46.4	71.3	91.2	99.5	101.1
85°	29.8	41.5	51.4	53.1	56.4
87.5°	13.3	14.9	18.2	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)