

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: P277647

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277647
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: 22CZ2-44HE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2160.0 lumens
Efficiency: N/A
Efficacy: 62.6 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

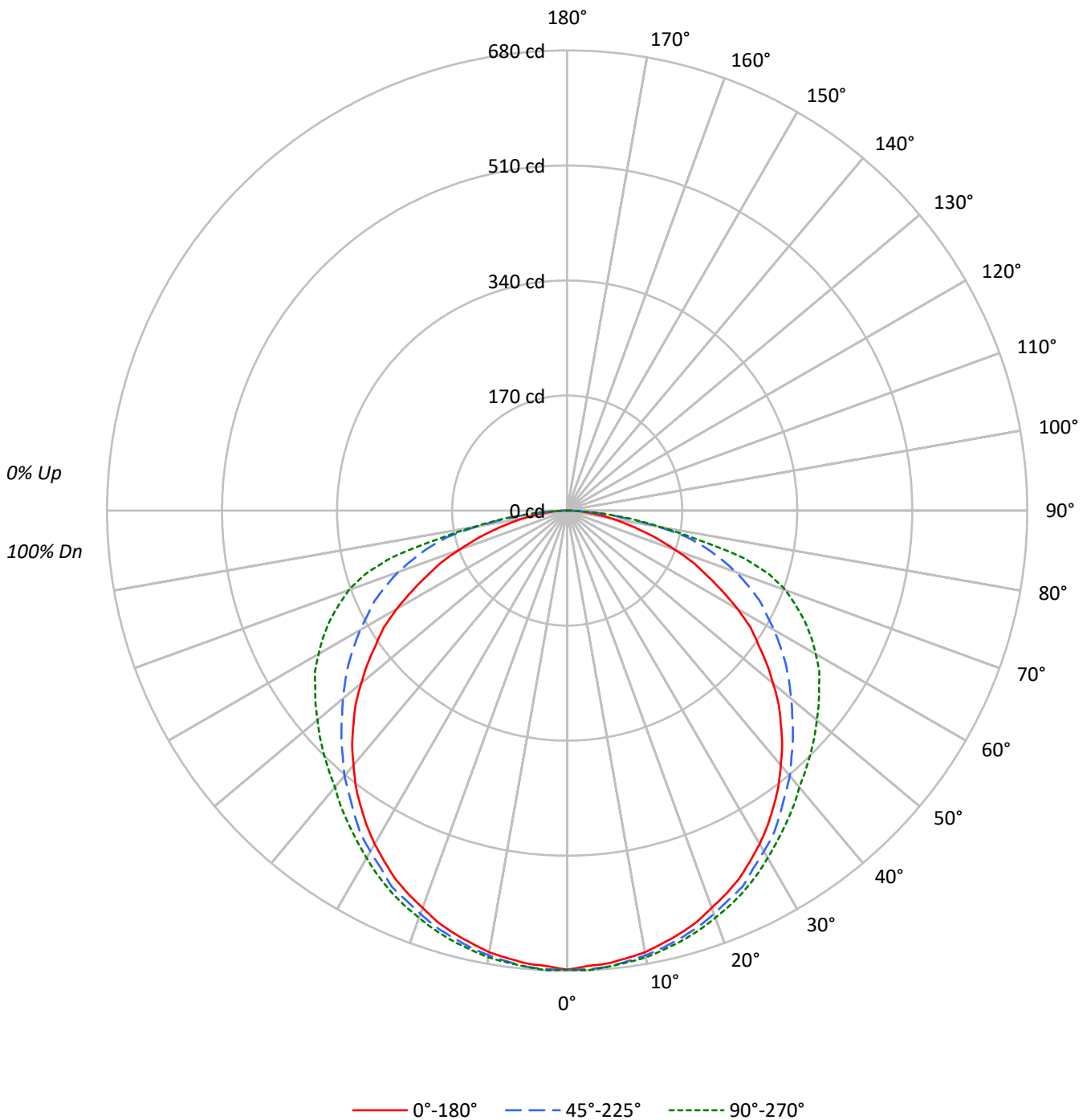
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1826	1826	1826
5°	1816	1828	1828
10°	1811	1824	1832
15°	1802	1819	1833
20°	1788	1816	1834
25°	1783	1821	1840
30°	1768	1807	1842
35°	1749	1801	1853
40°	1725	1798	1875
45°	1699	1796	1935
50°	1663	1809	2016
55°	1618	1849	2132
60°	1565	1899	2284
65°	1457	1993	2469
70°	1338	2088	2700
75°	1173	2197	2792
80°	1009	2094	2191
85°	883	1522	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.0
10°-20°	184.3	8.5
20°-30°	281.1	13.0
30°-40°	343.3	15.9
40°-50°	367.1	17.0
50°-60°	354.3	16.4
60°-70°	305.0	14.1
70°-80°	206.3	9.6
80°-90°	54.4	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°	529.6	24.5
0°-40°	872.9	40.4
0°-60°	1594.2	73.8
0°-90°	2160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	672	674	677	677	677	64
15°	647	648	653	656	658	182
25°	601	604	613	616	620	276
35°	532	537	548	559	564	333
45°	446	454	472	496	508	345
55°	345	356	394	434	454	309
65°	229	251	313	362	388	228
75°	113	149	211	254	268	121
85°	29	40	49	51	54	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	678.5	678.5	678.5	678.5	678.5
2.5°	673.7	675.3	678.5	678.5	680.1
5°	672.1	673.7	676.9	676.9	676.9
7.5°	667.4	669.0	672.1	673.7	673.7
10°	662.6	664.2	667.4	669.0	670.5
12.5°	654.7	656.2	661.0	664.2	664.2
15°	646.7	648.3	653.1	656.2	657.8
17.5°	637.2	640.4	645.1	648.3	649.9
20°	624.5	627.6	634.0	638.8	640.4
22.5°	613.3	616.5	622.9	627.6	630.8
25°	600.6	603.8	613.3	616.5	619.7
27.5°	584.7	587.9	595.9	602.2	607.0
30°	568.9	572.0	581.6	589.5	592.7
32.5°	551.4	556.1	567.3	573.6	578.4
35°	532.3	537.1	548.2	559.3	564.1
37.5°	513.2	518.0	529.1	543.4	549.8
40°	491.0	497.4	511.7	530.7	533.9
42.5°	470.3	478.3	491.0	513.2	521.2
45°	446.5	454.4	471.9	495.8	508.5
47.5°	424.3	432.2	451.3	479.9	495.8
50°	397.2	408.4	432.2	465.6	481.5
52.5°	371.8	381.4	413.1	449.7	468.7
55°	344.8	355.9	394.1	433.8	454.4
57.5°	321.0	330.5	373.4	417.9	441.7
60°	290.8	303.5	352.8	400.4	424.3
62.5°	259.0	278.1	332.1	381.4	406.8
65°	228.8	251.1	313.0	362.3	387.7
67.5°	201.8	225.6	289.2	341.6	365.5
70°	170.0	200.2	265.4	316.2	343.2
72.5°	141.4	174.8	238.3	289.2	313.0
75°	112.8	149.4	211.3	254.2	268.5
77.5°	87.4	122.4	181.1	193.9	195.4
80°	65.1	96.9	135.1	136.7	141.4
82.5°	44.5	68.3	87.4	95.3	96.9
85°	28.6	39.7	49.3	50.8	54.0
87.5°	12.7	14.3	17.5	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)