

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: P277548

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277548
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: 22CZ2-20HE-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: 1236.0 lumens
Efficiency: N/A
Efficacy: 79.6 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

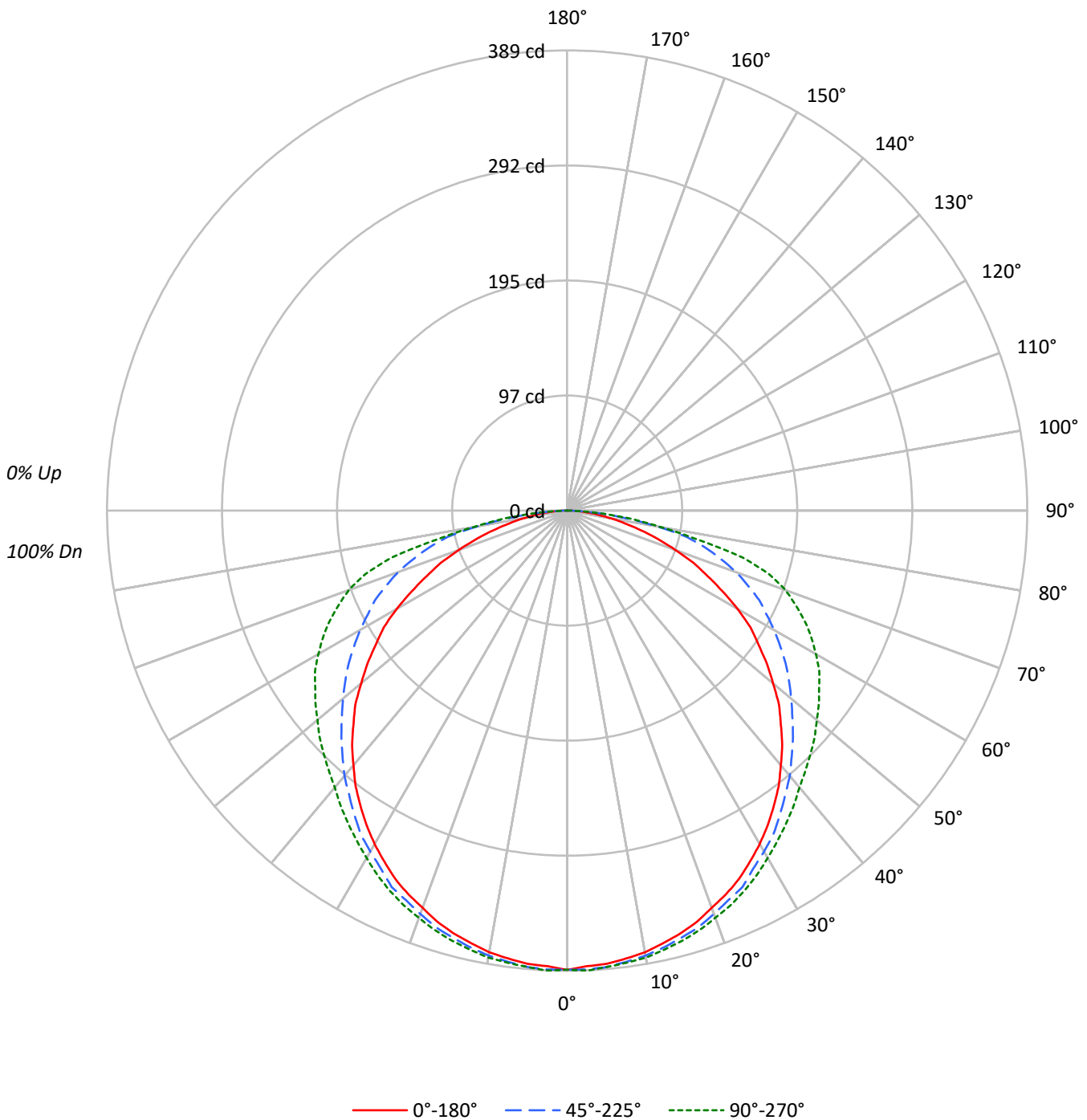
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1045	1045	1045
5°	1039	1046	1046
10°	1036	1044	1048
15°	1031	1041	1049
20°	1023	1039	1049
25°	1021	1042	1053
30°	1011	1034	1054
35°	1001	1031	1060
40°	987	1029	1073
45°	972	1028	1107
50°	952	1035	1153
55°	926	1058	1220
60°	896	1087	1307
65°	833	1140	1413
70°	766	1194	1545
75°	672	1257	1598
80°	578	1198	1254
85°	506	871	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	3.0
10°-20°	105.4	8.5
20°-30°	160.9	13.0
30°-40°	196.4	15.9
40°-50°	210.0	17.0
50°-60°	202.7	16.4
60°-70°	174.5	14.1
70°-80°	118.1	9.6
80°-90°	31.2	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°	303.1	24.5
0°-40°	499.5	40.4
0°-60°	912.3	73.8
0°-90°	1236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	388	388	388	388	388	
5°	385	386	387	387	387	37
15°	370	371	374	376	376	104
25°	344	346	351	353	355	158
35°	305	307	314	320	323	191
45°	256	260	270	284	291	197
55°	197	204	226	248	260	177
65°	131	144	179	207	222	130
75°	65	86	121	146	154	69
85°	16	23	28	29	31	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	388.2	388.2	388.2	388.2	388.2
2.5°	385.5	386.4	388.2	388.2	389.2
5°	384.6	385.5	387.3	387.3	387.3
7.5°	381.9	382.8	384.6	385.5	385.5
10°	379.2	380.1	381.9	382.8	383.7
12.5°	374.6	375.5	378.2	380.1	380.1
15°	370.1	371.0	373.7	375.5	376.4
17.5°	364.6	366.4	369.2	371.0	371.9
20°	357.3	359.2	362.8	365.5	366.4
22.5°	351.0	352.8	356.4	359.2	361.0
25°	343.7	345.5	351.0	352.8	354.6
27.5°	334.6	336.4	341.0	344.6	347.3
30°	325.5	327.3	332.8	337.3	339.1
32.5°	315.5	318.2	324.6	328.2	331.0
35°	304.6	307.3	313.7	320.1	322.8
37.5°	293.7	296.4	302.8	311.0	314.6
40°	281.0	284.6	292.8	303.7	305.5
42.5°	269.1	273.7	281.0	293.7	298.2
45°	255.5	260.0	270.0	283.7	291.0
47.5°	242.8	247.3	258.2	274.6	283.7
50°	227.3	233.7	247.3	266.4	275.5
52.5°	212.8	218.2	236.4	257.3	268.2
55°	197.3	203.7	225.5	248.2	260.0
57.5°	183.7	189.1	213.7	239.1	252.8
60°	166.4	173.7	201.9	229.1	242.8
62.5°	148.2	159.1	190.0	218.2	232.8
65°	130.9	143.7	179.1	207.3	221.9
67.5°	115.5	129.1	165.5	195.5	209.1
70°	97.3	114.6	151.8	180.9	196.4
72.5°	80.9	100.0	136.4	165.5	179.1
75°	64.6	85.5	120.9	145.5	153.7
77.5°	50.0	70.0	103.7	110.9	111.8
80°	37.3	55.5	77.3	78.2	80.9
82.5°	25.5	39.1	50.0	54.6	55.5
85°	16.4	22.7	28.2	29.1	30.9
87.5°	7.3	8.2	10.0	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)