

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: P277489

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277489
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-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1347.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

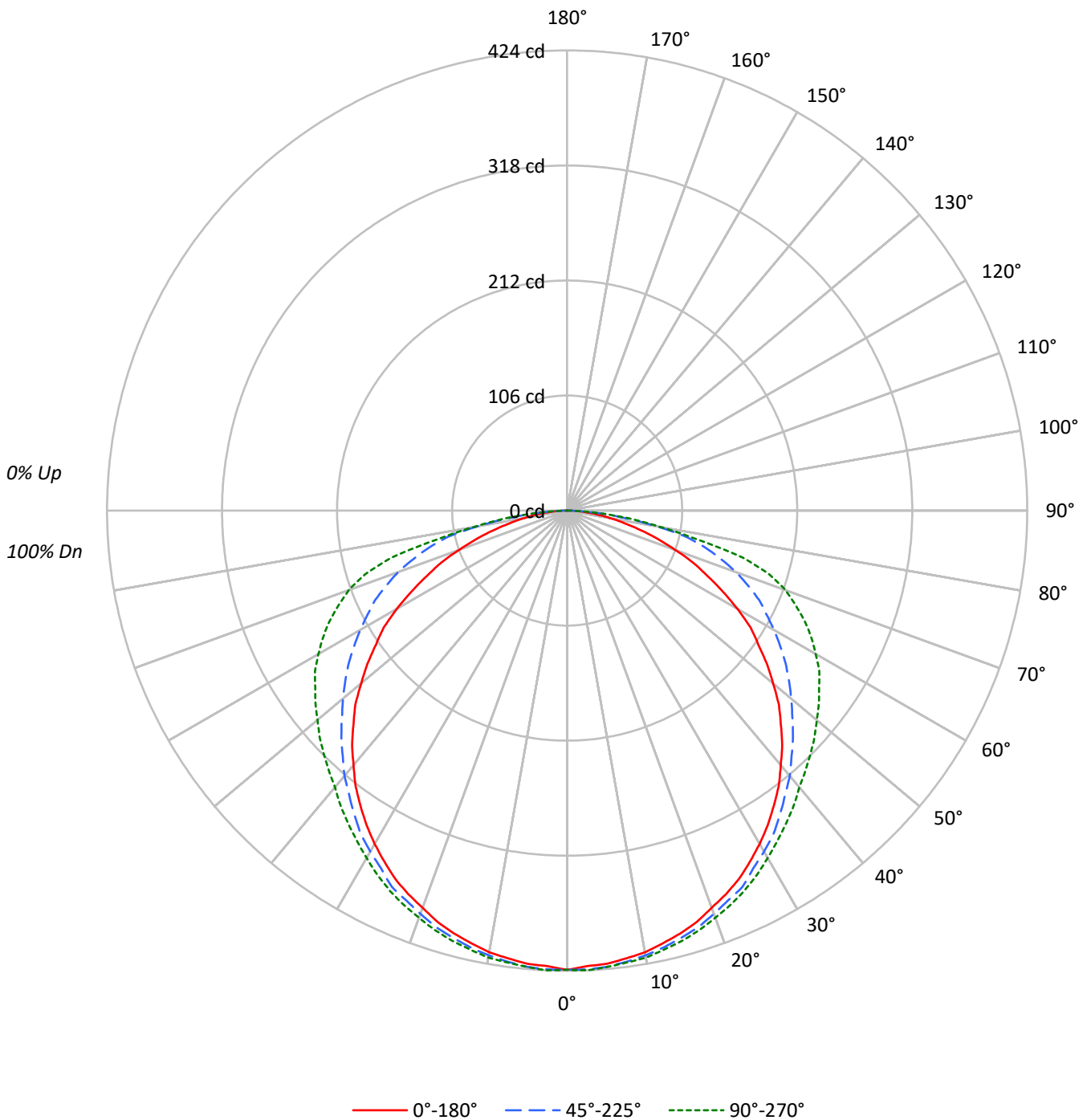
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1139	1139	1139
5°	1132	1140	1140
10°	1129	1137	1143
15°	1124	1135	1143
20°	1115	1132	1143
25°	1112	1136	1148
30°	1102	1127	1148
35°	1091	1123	1156
40°	1076	1121	1169
45°	1059	1120	1207
50°	1037	1128	1257
55°	1009	1153	1330
60°	976	1184	1424
65°	909	1243	1540
70°	834	1302	1684
75°	732	1370	1742
80°	629	1305	1367
85°	550	948	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	3.0
10°-20°	114.9	8.5
20°-30°	175.3	13.0
30°-40°	214.1	15.9
40°-50°	228.9	17.0
50°-60°	220.9	16.4
60°-70°	190.2	14.1
70°-80°	128.7	9.6
80°-90°	33.9	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°	330.3	24.5
0°-40°	544.3	40.4
0°-60°	994.2	73.8
0°-90°	1347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	419	420	422	422	422	40
15°	403	404	407	409	410	114
25°	375	376	382	384	386	172
35°	332	335	342	349	352	208
45°	278	283	294	309	317	215
55°	215	222	246	270	283	193
65°	143	157	195	226	242	142
75°	70	93	132	158	168	75
85°	18	25	31	32	34	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	423.1	423.1	423.1	423.1	423.1
2.5°	420.1	421.1	423.1	423.1	424.1
5°	419.2	420.1	422.1	422.1	422.1
7.5°	416.2	417.2	419.2	420.1	420.1
10°	413.2	414.2	416.2	417.2	418.2
12.5°	408.3	409.2	412.2	414.2	414.2
15°	403.3	404.3	407.3	409.2	410.2
17.5°	397.4	399.3	402.3	404.3	405.3
20°	389.4	391.4	395.4	398.3	399.3
22.5°	382.5	384.5	388.4	391.4	393.4
25°	374.6	376.5	382.5	384.5	386.5
27.5°	364.7	366.6	371.6	375.6	378.5
30°	354.7	356.7	362.7	367.6	369.6
32.5°	343.8	346.8	353.8	357.7	360.7
35°	332.0	334.9	341.9	348.8	351.8
37.5°	320.1	323.0	330.0	338.9	342.9
40°	306.2	310.2	319.1	331.0	332.9
42.5°	293.3	298.3	306.2	320.1	325.0
45°	278.4	283.4	294.3	309.2	317.1
47.5°	264.6	269.5	281.4	299.3	309.2
50°	247.7	254.7	269.5	290.3	300.2
52.5°	231.9	237.8	257.6	280.4	292.3
55°	215.0	222.0	245.7	270.5	283.4
57.5°	200.2	206.1	232.9	260.6	275.5
60°	181.3	189.3	220.0	249.7	264.6
62.5°	161.5	173.4	207.1	237.8	253.7
65°	142.7	156.6	195.2	225.9	241.8
67.5°	125.8	140.7	180.3	213.0	227.9
70°	106.0	124.9	165.5	197.2	214.0
72.5°	88.2	109.0	148.6	180.3	195.2
75°	70.4	93.1	131.8	158.5	167.5
77.5°	54.5	76.3	113.0	120.9	121.9
80°	40.6	60.4	84.2	85.2	88.2
82.5°	27.7	42.6	54.5	59.5	60.4
85°	17.8	24.8	30.7	31.7	33.7
87.5°	7.9	8.9	10.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)