

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: P277490

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277490
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-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1415.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

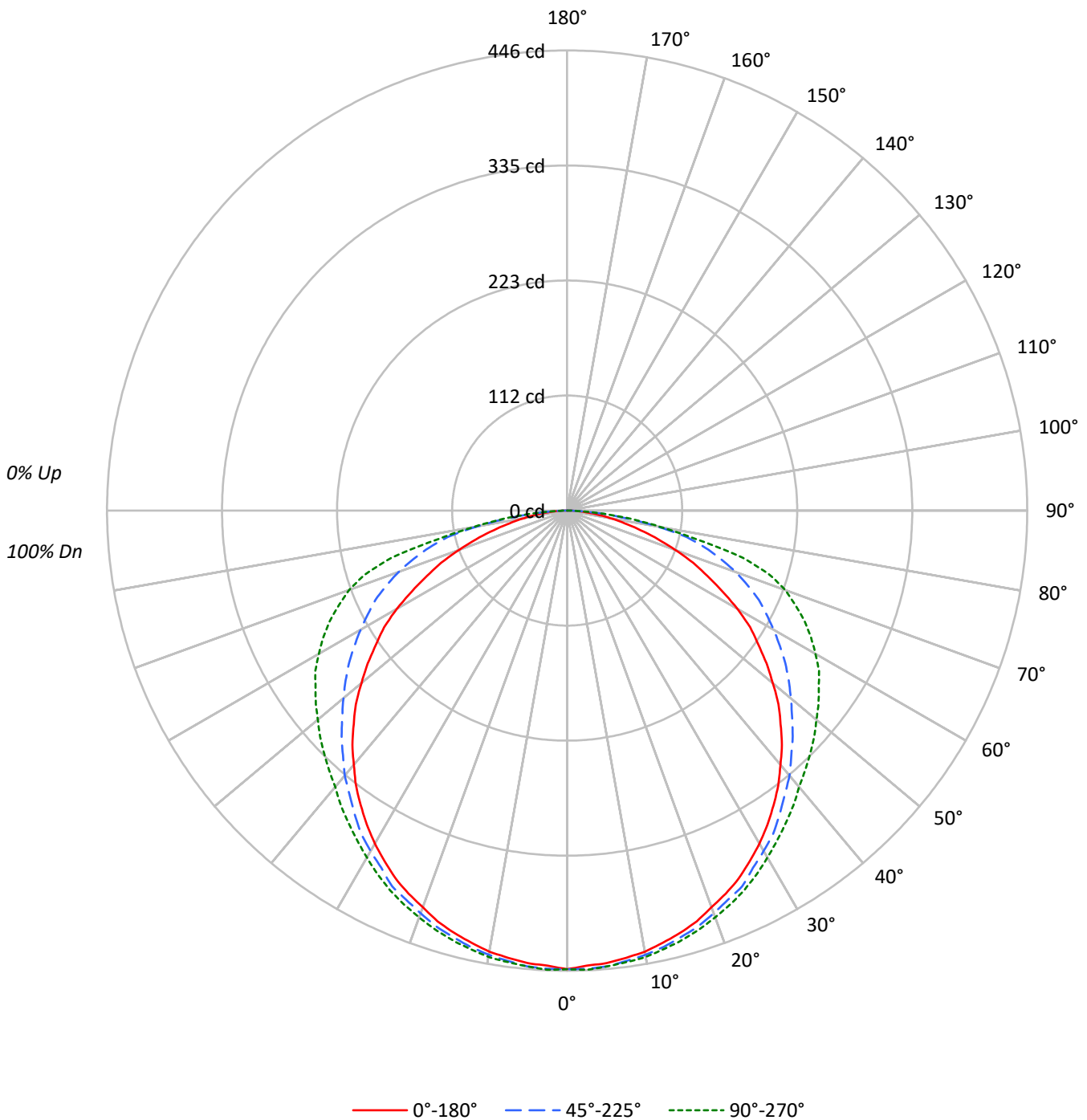
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1196	1196	1196
5°	1189	1198	1198
10°	1186	1195	1200
15°	1180	1192	1200
20°	1172	1189	1201
25°	1168	1193	1205
30°	1158	1184	1207
35°	1146	1180	1214
40°	1130	1177	1229
45°	1113	1177	1268
50°	1089	1185	1320
55°	1060	1211	1397
60°	1025	1244	1496
65°	954	1306	1617
70°	876	1367	1769
75°	768	1439	1829
80°	662	1371	1435
85°	577	997	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	3.0
10°-20°	120.7	8.5
20°-30°	184.2	13.0
30°-40°	224.9	15.9
40°-50°	240.5	17.0
50°-60°	232.1	16.4
60°-70°	199.8	14.1
70°-80°	135.2	9.6
80°-90°	35.7	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°	346.9	24.5
0°-40°	571.8	40.4
0°-60°	1044.4	73.8
0°-90°	1415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	440	441	443	443	443	42
15°	424	425	428	430	431	120
25°	394	396	402	404	406	181
35°	349	352	359	366	370	218
45°	292	298	309	325	333	226
55°	226	233	258	284	298	202
65°	150	164	205	237	254	149
75°	74	98	138	166	176	79
85°	19	26	32	33	35	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	444.5	444.5	444.5	444.5	444.5
2.5°	441.4	442.4	444.5	444.5	445.5
5°	440.3	441.4	443.4	443.4	443.4
7.5°	437.2	438.2	440.3	441.4	441.4
10°	434.1	435.1	437.2	438.2	439.3
12.5°	428.9	429.9	433.0	435.1	435.1
15°	423.7	424.7	427.8	429.9	430.9
17.5°	417.4	419.5	422.6	424.7	425.7
20°	409.1	411.2	415.3	418.5	419.5
22.5°	401.8	403.9	408.0	411.2	413.2
25°	393.5	395.6	401.8	403.9	406.0
27.5°	383.1	385.1	390.3	394.5	397.6
30°	372.7	374.7	381.0	386.2	388.3
32.5°	361.2	364.3	371.6	375.8	378.9
35°	348.7	351.8	359.1	366.4	369.5
37.5°	336.2	339.3	346.6	356.0	360.2
40°	321.6	325.8	335.2	347.7	349.8
42.5°	308.1	313.3	321.6	336.2	341.4
45°	292.5	297.7	309.2	324.8	333.1
47.5°	277.9	283.1	295.6	314.4	324.8
50°	260.2	267.5	283.1	305.0	315.4
52.5°	243.6	249.8	270.6	294.6	307.1
55°	225.9	233.2	258.2	284.2	297.7
57.5°	210.3	216.5	244.6	273.8	289.4
60°	190.5	198.8	231.1	262.3	277.9
62.5°	169.7	182.2	217.6	249.8	266.5
65°	149.9	164.5	205.1	237.3	254.0
67.5°	132.2	147.8	189.4	223.8	239.4
70°	111.4	131.2	173.8	207.1	224.8
72.5°	92.6	114.5	156.1	189.4	205.1
75°	73.9	97.8	138.4	166.5	175.9
77.5°	57.3	80.2	118.7	127.0	128.0
80°	42.7	63.5	88.5	89.5	92.6
82.5°	29.1	44.8	57.3	62.5	63.5
85°	18.7	26.0	32.3	33.3	35.4
87.5°	8.3	9.4	11.5	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)