

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: P277614

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277614
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: 22CZ2-24HE-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1342.0 lumens
Efficiency: N/A
Efficacy: 75.6 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

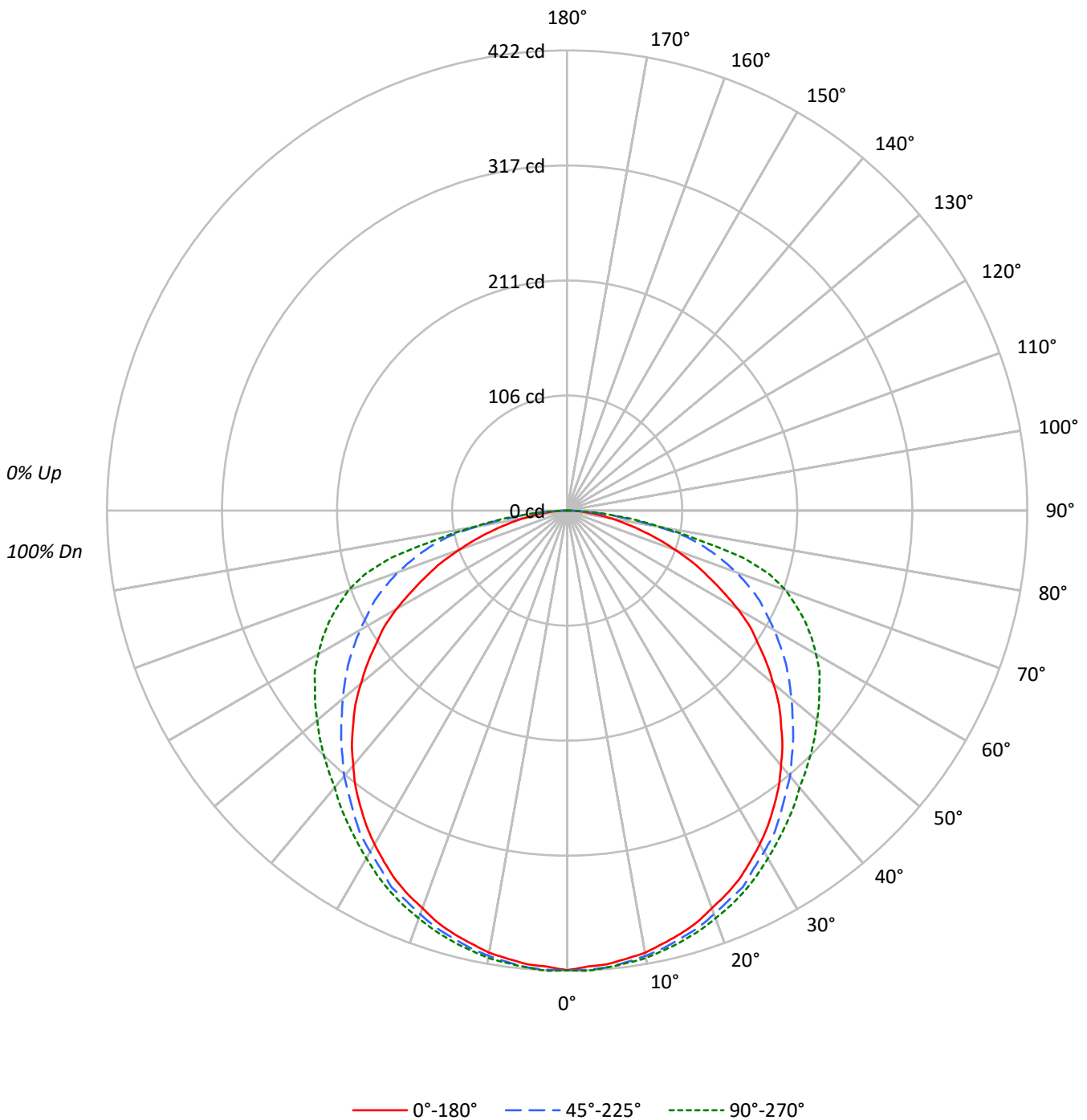
Input Watts (W): 17.763
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1134	1134	1134
5°	1128	1136	1136
10°	1125	1133	1138
15°	1119	1130	1139
20°	1111	1128	1139
25°	1108	1132	1143
30°	1098	1123	1144
35°	1086	1119	1151
40°	1072	1117	1165
45°	1056	1116	1202
50°	1033	1124	1252
55°	1005	1148	1324
60°	973	1180	1419
65°	905	1238	1534
70°	831	1297	1677
75°	729	1365	1734
80°	628	1300	1362
85°	550	945	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	3.0
10°-20°	114.5	8.5
20°-30°	174.7	13.0
30°-40°	213.3	15.9
40°-50°	228.0	17.0
50°-60°	220.1	16.4
60°-70°	189.5	14.1
70°-80°	128.2	9.6
80°-90°	33.8	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°	329.0	24.5
0°-40°	542.3	40.4
0°-60°	990.5	73.8
0°-90°	1342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	418	419	421	421	421	40
15°	402	403	406	408	409	113
25°	373	375	381	383	385	172
35°	331	334	341	348	350	207
45°	277	282	293	308	316	214
55°	214	221	245	270	282	192
65°	142	156	194	225	241	141
75°	70	93	131	158	167	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°	421.5	421.5	421.5	421.5	421.5
2.5°	418.6	419.6	421.5	421.5	422.5
5°	417.6	418.6	420.6	420.6	420.6
7.5°	414.6	415.6	417.6	418.6	418.6
10°	411.7	412.7	414.6	415.6	416.6
12.5°	406.7	407.7	410.7	412.7	412.7
15°	401.8	402.8	405.7	407.7	408.7
17.5°	395.9	397.9	400.8	402.8	403.8
20°	388.0	390.0	393.9	396.9	397.9
22.5°	381.1	383.0	387.0	390.0	391.9
25°	373.2	375.1	381.1	383.0	385.0
27.5°	363.3	365.3	370.2	374.2	377.1
30°	353.4	355.4	361.3	366.3	368.2
32.5°	342.6	345.5	352.4	356.4	359.4
35°	330.7	333.7	340.6	347.5	350.5
37.5°	318.9	321.8	328.7	337.6	341.6
40°	305.1	309.0	317.9	329.7	331.7
42.5°	292.2	297.2	305.1	318.9	323.8
45°	277.4	282.3	293.2	308.0	315.9
47.5°	263.6	268.5	280.4	298.1	308.0
50°	246.8	253.7	268.5	289.3	299.1
52.5°	231.0	236.9	256.7	279.4	291.2
55°	214.2	221.1	244.8	269.5	282.3
57.5°	199.4	205.3	232.0	259.6	274.4
60°	180.7	188.6	219.2	248.8	263.6
62.5°	160.9	172.8	206.3	236.9	252.7
65°	142.2	156.0	194.5	225.1	240.9
67.5°	125.4	140.2	179.7	212.3	227.1
70°	105.6	124.4	164.9	196.5	213.2
72.5°	87.9	108.6	148.1	179.7	194.5
75°	70.1	92.8	131.3	158.0	166.8
77.5°	54.3	76.0	112.5	120.4	121.4
80°	40.5	60.2	83.9	84.9	87.9
82.5°	27.6	42.5	54.3	59.2	60.2
85°	17.8	24.7	30.6	31.6	33.6
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)