

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: P277618

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277618
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-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1433.0 lumens
Efficiency: N/A
Efficacy: 79.0 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

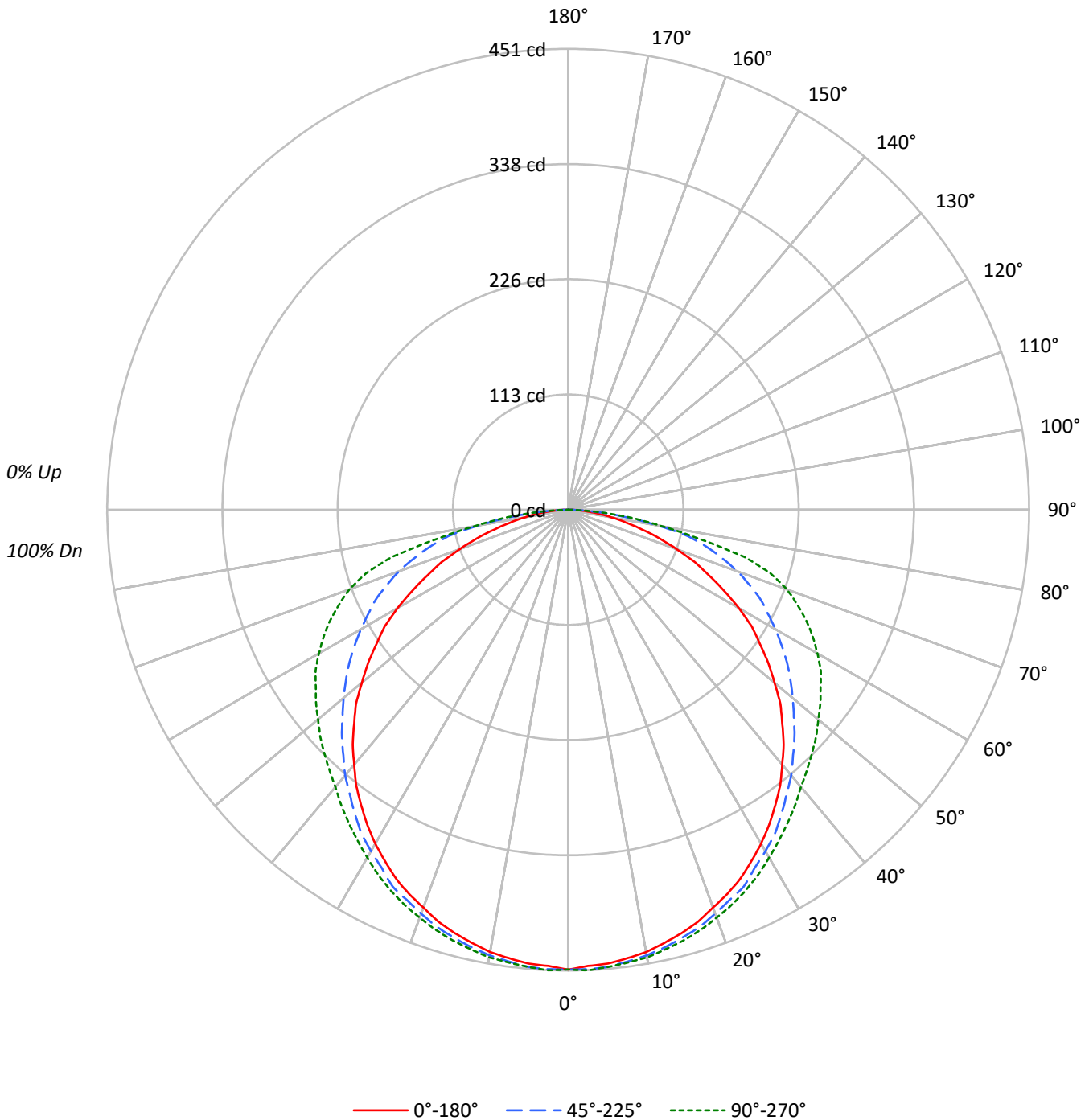
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1211	1211	1211
5°	1204	1213	1213
10°	1201	1210	1216
15°	1195	1207	1216
20°	1186	1204	1216
25°	1183	1208	1221
30°	1173	1199	1222
35°	1160	1195	1229
40°	1144	1192	1244
45°	1127	1192	1284
50°	1103	1200	1337
55°	1073	1226	1415
60°	1038	1259	1515
65°	967	1323	1638
70°	887	1385	1792
75°	778	1458	1853
80°	669	1389	1454
85°	587	1010	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.0
10°-20°	122.3	8.5
20°-30°	186.5	13.0
30°-40°	227.7	15.9
40°-50°	243.5	17.0
50°-60°	235.0	16.4
60°-70°	202.3	14.1
70°-80°	136.9	9.6
80°-90°	36.1	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°	351.3	24.5
0°-40°	579.1	40.4
0°-60°	1057.6	73.8
0°-90°	1433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	446	447	449	449	449	42
15°	429	430	433	435	436	121
25°	398	401	407	409	411	183
35°	353	356	364	371	374	221
45°	296	302	313	329	337	229
55°	229	236	261	288	302	205
65°	152	167	208	240	257	151
75°	75	99	140	169	178	80
85°	19	26	33	34	36	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	450.1	450.1	450.1	450.1	450.1
2.5°	447.0	448.0	450.1	450.1	451.2
5°	445.9	447.0	449.1	449.1	449.1
7.5°	442.8	443.8	445.9	447.0	447.0
10°	439.6	440.6	442.8	443.8	444.9
12.5°	434.3	435.4	438.5	440.6	440.6
15°	429.0	430.1	433.3	435.4	436.4
17.5°	422.7	424.8	428.0	430.1	431.2
20°	414.3	416.4	420.6	423.8	424.8
22.5°	406.9	409.0	413.2	416.4	418.5
25°	398.5	400.6	406.9	409.0	411.1
27.5°	387.9	390.0	395.3	399.5	402.7
30°	377.4	379.5	385.8	391.1	393.2
32.5°	365.8	369.0	376.3	380.6	383.7
35°	353.1	356.3	363.7	371.1	374.2
37.5°	340.5	343.7	351.0	360.5	364.7
40°	325.7	330.0	339.4	352.1	354.2
42.5°	312.0	317.3	325.7	340.5	345.8
45°	296.2	301.5	313.1	328.9	337.3
47.5°	281.5	286.7	299.4	318.4	328.9
50°	263.5	270.9	286.7	308.9	319.4
52.5°	246.7	253.0	274.1	298.3	311.0
55°	228.8	236.1	261.4	287.8	301.5
57.5°	212.9	219.3	247.7	277.2	293.1
60°	192.9	201.3	234.0	265.7	281.5
62.5°	171.8	184.5	220.3	253.0	269.9
65°	151.8	166.6	207.7	240.4	257.2
67.5°	133.9	149.7	191.9	226.6	242.5
70°	112.8	132.8	176.0	209.8	227.7
72.5°	93.8	116.0	158.1	191.9	207.7
75°	74.8	99.1	140.2	168.7	178.2
77.5°	58.0	81.2	120.2	128.6	129.7
80°	43.2	64.3	89.6	90.7	93.8
82.5°	29.5	45.3	58.0	63.3	64.3
85°	19.0	26.4	32.7	33.7	35.8
87.5°	8.4	9.5	11.6	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)