

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: P277615

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277615
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-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1377.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

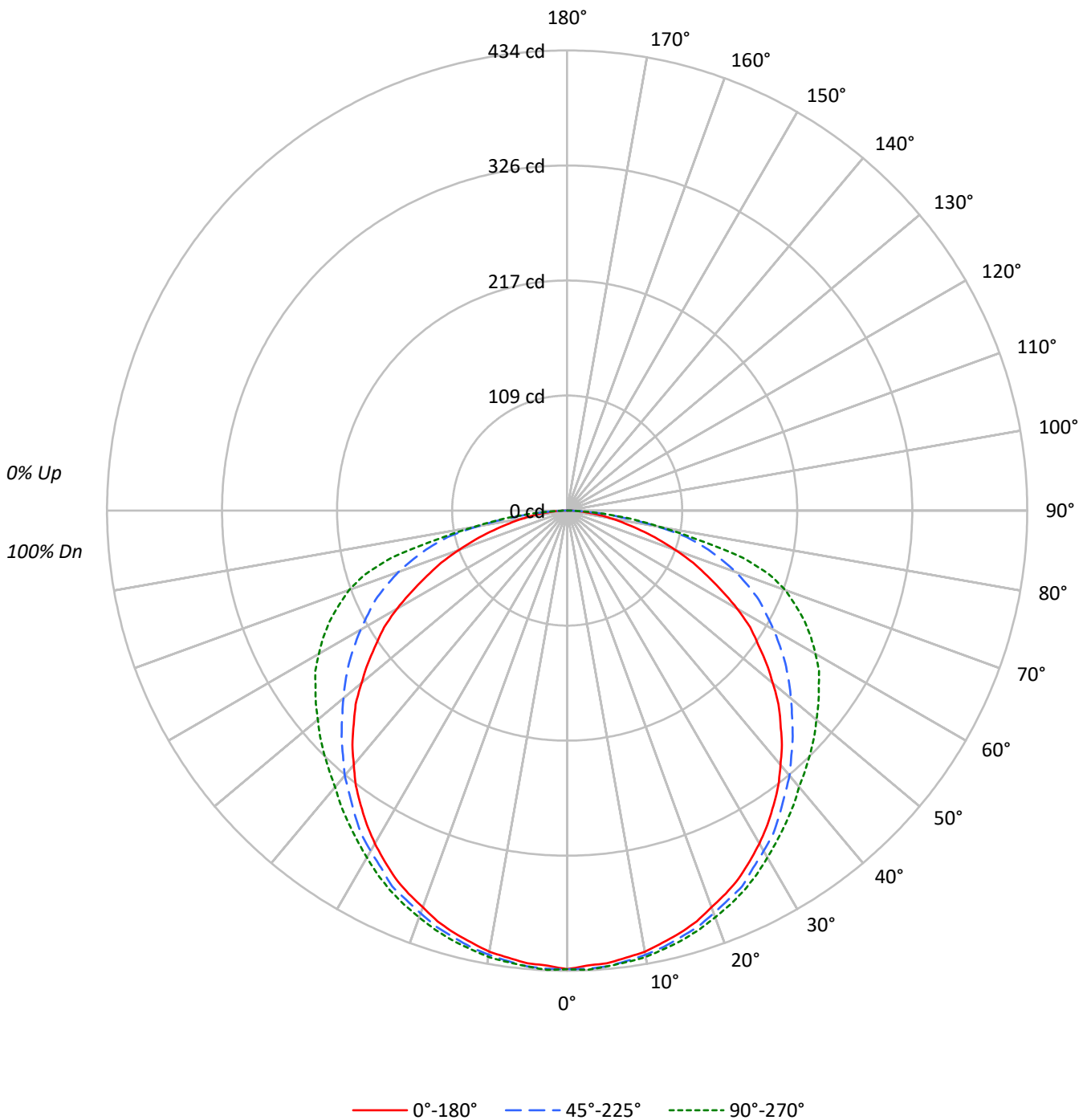
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1164	1164	1164
5°	1157	1166	1166
10°	1154	1162	1168
15°	1149	1160	1168
20°	1140	1157	1169
25°	1137	1161	1173
30°	1127	1152	1174
35°	1115	1148	1181
40°	1100	1146	1196
45°	1083	1145	1234
50°	1060	1153	1285
55°	1031	1179	1359
60°	998	1210	1456
65°	929	1271	1574
70°	853	1331	1721
75°	748	1400	1780
80°	643	1334	1398
85°	562	969	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	3.0
10°-20°	117.5	8.5
20°-30°	179.2	13.0
30°-40°	218.8	15.9
40°-50°	234.0	17.0
50°-60°	225.9	16.4
60°-70°	194.4	14.1
70°-80°	131.5	9.6
80°-90°	34.7	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°	337.6	24.5
0°-40°	556.5	40.4
0°-60°	1016.3	73.8
0°-90°	1377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1377.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	432	432	432	432	432	
5°	428	430	432	432	432	41
15°	412	413	416	418	419	116
25°	383	385	391	393	395	176
35°	339	342	350	357	360	212
45°	285	290	301	316	324	220
55°	220	227	251	276	290	197
65°	146	160	200	231	247	145
75°	72	95	135	162	171	77
85°	18	25	31	32	34	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	432.5	432.5	432.5	432.5	432.5
2.5°	429.5	430.5	432.5	432.5	433.6
5°	428.5	429.5	431.5	431.5	431.5
7.5°	425.4	426.5	428.5	429.5	429.5
10°	422.4	423.4	425.4	426.5	427.5
12.5°	417.3	418.4	421.4	423.4	423.4
15°	412.3	413.3	416.3	418.4	419.4
17.5°	406.2	408.2	411.3	413.3	414.3
20°	398.1	400.1	404.2	407.2	408.2
22.5°	391.0	393.0	397.1	400.1	402.2
25°	382.9	384.9	391.0	393.0	395.1
27.5°	372.8	374.8	379.9	383.9	387.0
30°	362.6	364.7	370.7	375.8	377.8
32.5°	351.5	354.5	361.6	365.7	368.7
35°	339.3	342.4	349.5	356.6	359.6
37.5°	327.2	330.2	337.3	346.4	350.5
40°	313.0	317.1	326.2	338.3	340.4
42.5°	299.8	304.9	313.0	327.2	332.3
45°	284.6	289.7	300.9	316.0	324.2
47.5°	270.5	275.5	287.7	305.9	316.0
50°	253.2	260.3	275.5	296.8	306.9
52.5°	237.0	243.1	263.4	286.7	298.8
55°	219.8	226.9	251.2	276.5	289.7
57.5°	204.6	210.7	238.0	266.4	281.6
60°	185.4	193.5	224.9	255.3	270.5
62.5°	165.1	177.3	211.7	243.1	259.3
65°	145.9	160.0	199.6	231.0	247.2
67.5°	128.6	143.8	184.4	217.8	233.0
70°	108.4	127.6	169.2	201.6	218.8
72.5°	90.2	111.4	151.9	184.4	199.6
75°	71.9	95.2	134.7	162.1	171.2
77.5°	55.7	78.0	115.5	123.6	124.6
80°	41.5	61.8	86.1	87.1	90.2
82.5°	28.4	43.6	55.7	60.8	61.8
85°	18.2	25.3	31.4	32.4	34.4
87.5°	8.1	9.1	11.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)