

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: P277613

Luminaire Tested: **22CZ2-24HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277613
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-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1301.0 lumens
Efficiency: N/A
Efficacy: 74.0 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

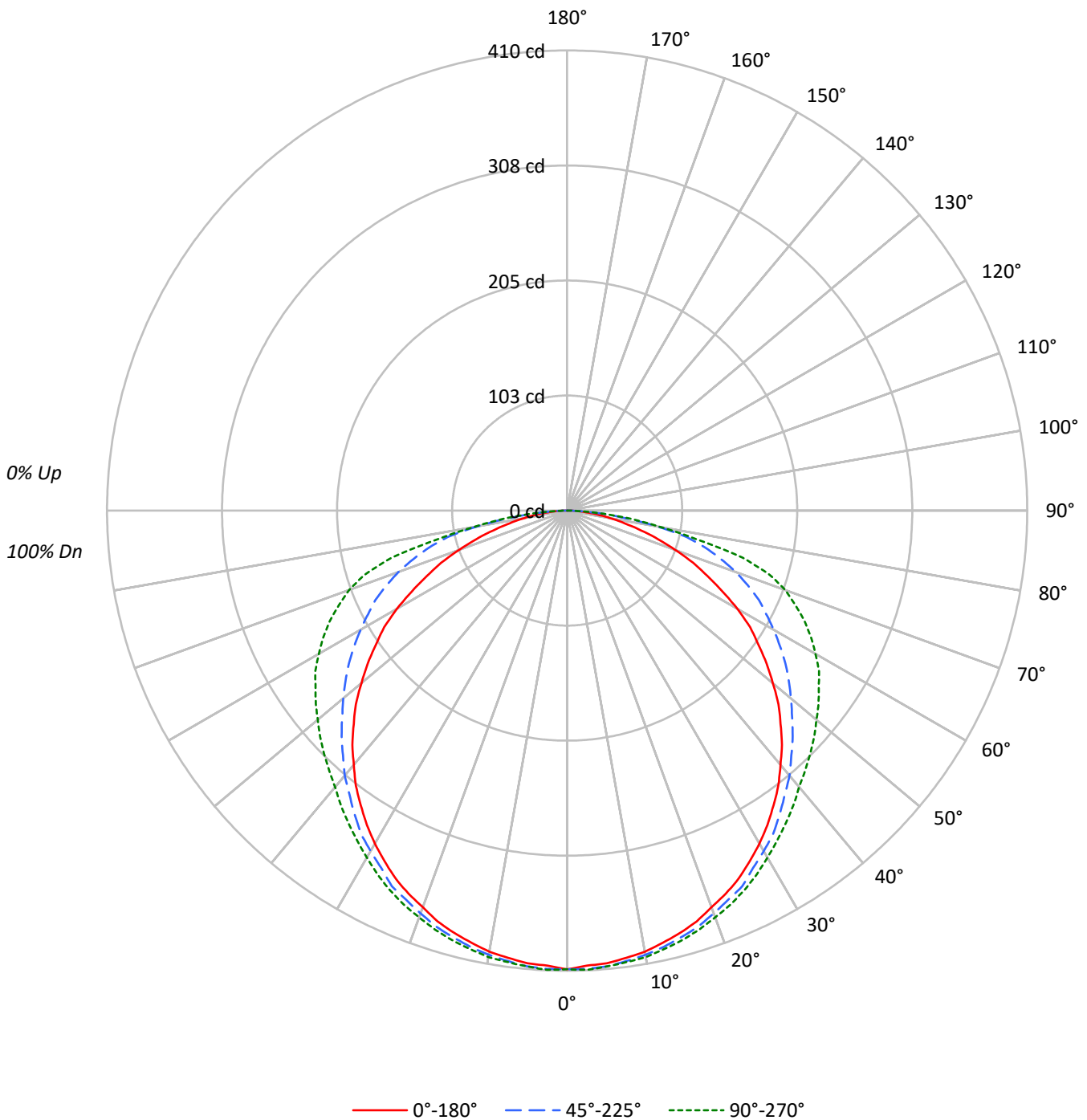
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1100	1100	1100
5°	1093	1101	1101
10°	1091	1098	1104
15°	1085	1096	1104
20°	1077	1094	1105
25°	1074	1097	1108
30°	1065	1088	1109
35°	1053	1085	1116
40°	1039	1083	1130
45°	1023	1082	1166
50°	1002	1090	1214
55°	974	1114	1284
60°	942	1144	1375
65°	877	1200	1487
70°	806	1257	1626
75°	707	1324	1681
80°	607	1261	1320
85°	531	917	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	3.0
10°-20°	111.0	8.5
20°-30°	169.3	13.0
30°-40°	206.8	15.9
40°-50°	221.1	17.0
50°-60°	213.4	16.4
60°-70°	183.7	14.1
70°-80°	124.3	9.6
80°-90°	32.8	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°	319.0	24.5
0°-40°	525.8	40.4
0°-60°	960.2	73.8
0°-90°	1301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	405	406	408	408	408	38
15°	390	390	393	395	396	110
25°	362	364	369	371	373	166
35°	321	324	330	337	340	201
45°	269	274	284	299	306	208
55°	208	214	237	261	274	186
65°	138	151	188	218	234	137
75°	68	90	127	153	162	73
85°	17	24	30	31	32	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.7	408.7	408.7	408.7	408.7
2.5°	405.8	406.8	408.7	408.7	409.6
5°	404.8	405.8	407.7	407.7	407.7
7.5°	402.0	402.9	404.8	405.8	405.8
10°	399.1	400.1	402.0	402.9	403.9
12.5°	394.3	395.3	398.1	400.1	400.1
15°	389.5	390.5	393.4	395.3	396.2
17.5°	383.8	385.7	388.6	390.5	391.4
20°	376.1	378.0	381.9	384.7	385.7
22.5°	369.4	371.3	375.2	378.0	380.0
25°	361.8	363.7	369.4	371.3	373.3
27.5°	352.2	354.1	358.9	362.7	365.6
30°	342.6	344.5	350.3	355.1	357.0
32.5°	332.1	335.0	341.7	345.5	348.4
35°	320.6	323.5	330.2	336.9	339.8
37.5°	309.1	312.0	318.7	327.3	331.1
40°	295.7	299.6	308.2	319.7	321.6
42.5°	283.3	288.1	295.7	309.1	313.9
45°	268.9	273.7	284.2	298.6	306.3
47.5°	255.5	260.3	271.8	289.0	298.6
50°	239.3	246.0	260.3	280.4	290.0
52.5°	224.0	229.7	248.8	270.8	282.3
55°	207.7	214.4	237.4	261.3	273.7
57.5°	193.3	199.1	224.9	251.7	266.1
60°	175.1	182.8	212.5	241.2	255.5
62.5°	156.0	167.5	200.0	229.7	245.0
65°	137.8	151.2	188.5	218.2	233.5
67.5°	121.5	135.9	174.2	205.8	220.1
70°	102.4	120.6	159.8	190.5	206.7
72.5°	85.2	105.3	143.6	174.2	188.5
75°	68.0	90.0	127.3	153.1	161.7
77.5°	52.6	73.7	109.1	116.8	117.7
80°	39.2	58.4	81.4	82.3	85.2
82.5°	26.8	41.2	52.6	57.4	58.4
85°	17.2	23.9	29.7	30.6	32.5
87.5°	7.7	8.6	10.5	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)