

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: P277140

Luminaire Tested: **24CZ2-45-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2706.5 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

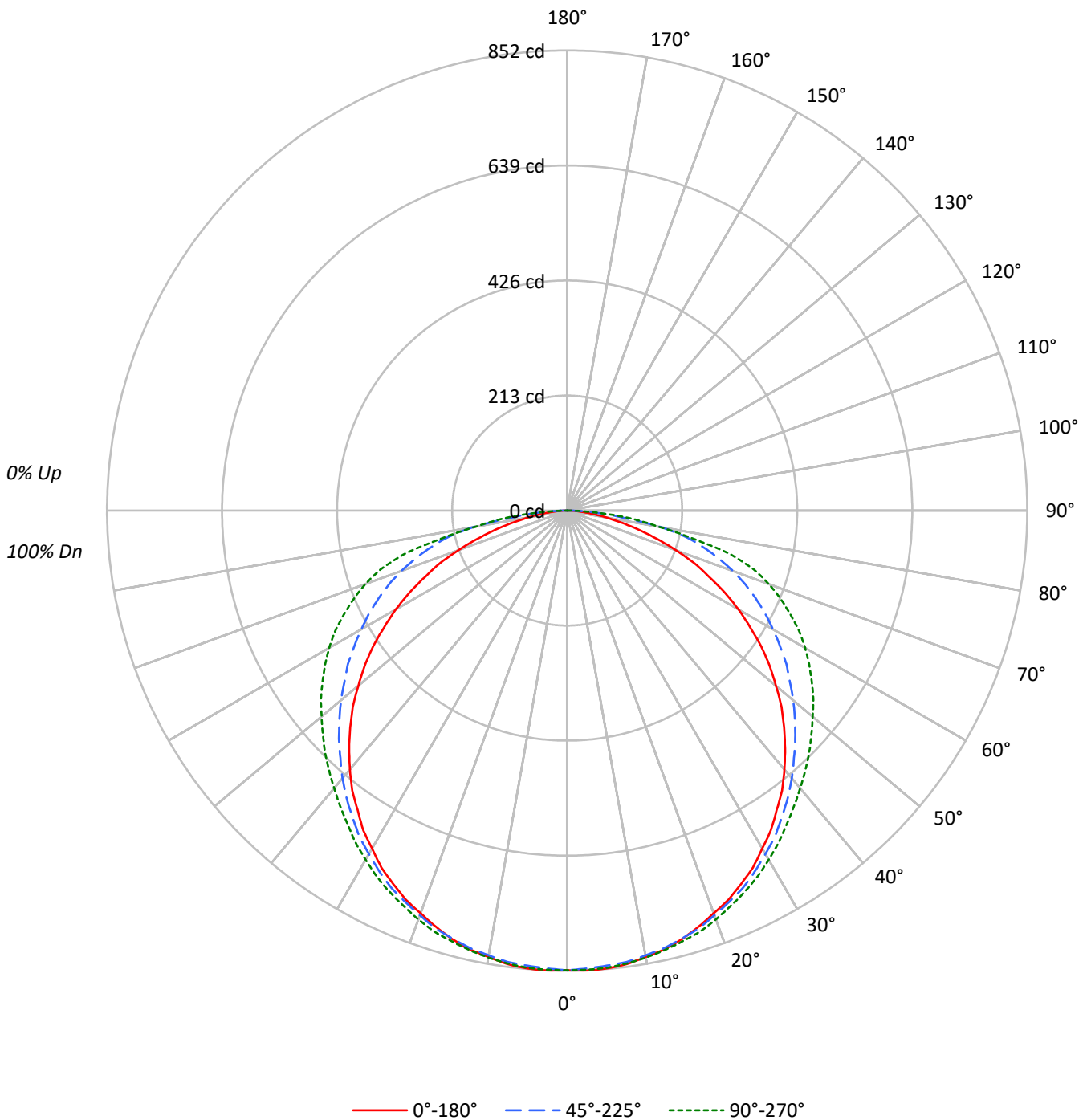
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	1145	1145	1145
5°	1150	1142	1148
10°	1146	1143	1148
15°	1144	1143	1150
20°	1136	1142	1153
25°	1132	1144	1156
30°	1122	1141	1160
35°	1111	1138	1164
40°	1099	1137	1179
45°	1081	1137	1206
50°	1057	1144	1242
55°	1030	1162	1297
60°	986	1185	1369
65°	923	1227	1453
70°	840	1283	1563
75°	712	1354	1633
80°	562	1363	1321
85°	414	1036	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.0
10°-20°	232.4	8.6
20°-30°	355.3	13.1
30°-40°	434.4	16.0
40°-50°	463.0	17.1
50°-60°	442.7	16.4
60°-70°	375.0	13.9
70°-80°	252.0	9.3
80°-90°	71.1	2.6
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°	668.4	24.7
0°-40°	1102.8	40.7
0°-60°	2008.5	74.2
0°-90°	2706.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2706.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	851	850	846	850	850	81
15°	822	822	820	827	826	232
25°	762	765	771	777	779	351
35°	677	682	693	706	709	424
45°	568	577	597	623	634	438
55°	439	455	495	534	553	391
65°	290	320	385	436	456	288
75°	137	187	260	305	314	147
85°	27	55	67	72	75	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.1	851.1	851.1	851.1	851.1
2.5°	852.5	852.5	848.5	851.1	851.1
5°	851.1	849.8	845.8	849.8	849.8
7.5°	847.1	845.8	843.1	847.1	845.8
10°	839.1	839.1	836.4	840.4	840.4
12.5°	832.3	831.0	829.7	835.0	833.7
15°	821.6	821.6	820.3	827.0	825.6
17.5°	808.2	809.5	810.9	816.2	817.6
20°	793.4	796.1	797.4	805.5	805.5
22.5°	780.0	781.3	784.0	792.1	792.1
25°	762.5	765.2	770.6	777.3	778.6
27.5°	745.1	746.4	753.1	762.5	763.9
30°	722.3	726.3	734.3	745.1	746.4
32.5°	702.1	706.2	715.6	726.3	729.0
35°	676.6	682.0	692.7	706.2	708.8
37.5°	653.8	657.8	671.2	686.0	690.0
40°	625.6	633.7	647.1	664.5	671.2
42.5°	597.4	605.5	621.6	644.4	652.5
45°	567.9	577.3	597.4	622.9	633.7
47.5°	538.3	549.1	571.9	601.4	613.5
50°	504.8	518.2	546.4	580.0	593.4
52.5°	472.6	488.7	519.5	557.1	574.6
55°	439.0	455.1	495.4	534.3	553.1
57.5°	401.4	422.9	467.2	511.5	531.6
60°	366.5	386.6	440.3	488.7	508.8
62.5°	328.9	355.8	413.5	464.5	484.6
65°	290.0	319.5	385.3	436.3	456.4
67.5°	255.1	287.3	357.1	408.1	428.3
70°	213.5	253.7	326.2	377.2	397.4
72.5°	174.5	218.8	294.0	343.7	362.5
75°	136.9	186.6	260.4	304.7	314.1
77.5°	102.0	154.4	225.5	244.3	237.6
80°	72.5	123.5	175.9	166.5	170.5
82.5°	47.0	94.0	108.7	123.5	127.5
85°	26.8	55.0	67.1	72.5	75.2
87.5°	12.1	20.1	26.8	26.8	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)