

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: P277050

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277050
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: 24CZ2-45HE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2678.6 lumens
Efficiency: N/A
Efficacy: 83.0 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

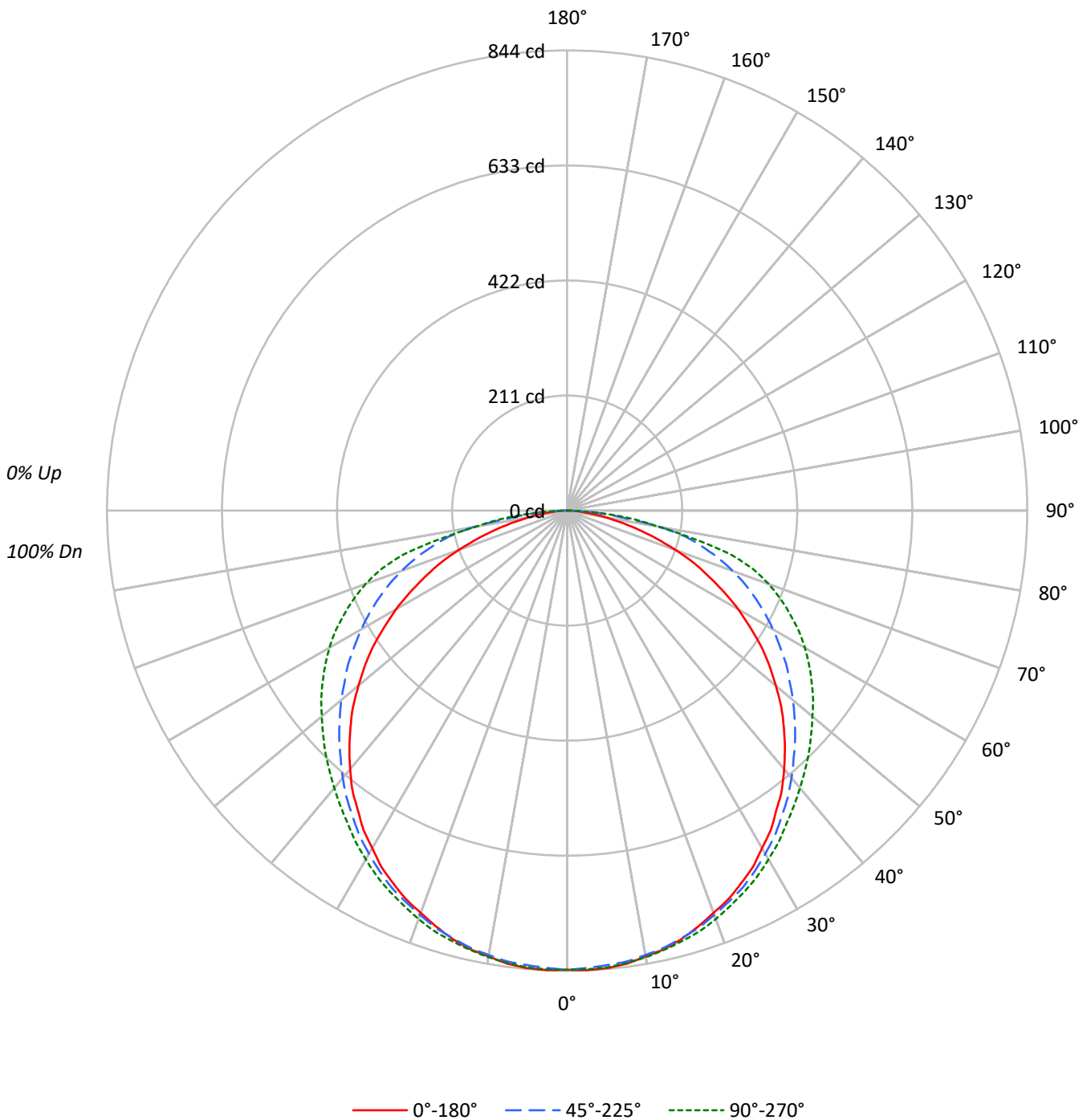
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1133	1133	1133
5°	1138	1130	1136
10°	1135	1131	1136
15°	1133	1131	1138
20°	1124	1130	1141
25°	1120	1132	1144
30°	1111	1129	1148
35°	1100	1126	1152
40°	1087	1125	1167
45°	1069	1125	1193
50°	1046	1132	1229
55°	1019	1150	1284
60°	976	1173	1355
65°	914	1214	1438
70°	831	1270	1547
75°	704	1340	1616
80°	556	1348	1307
85°	411	1025	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.0
10°-20°	230.0	8.6
20°-30°	351.7	13.1
30°-40°	429.9	16.0
40°-50°	458.2	17.1
50°-60°	438.1	16.4
60°-70°	371.1	13.9
70°-80°	249.4	9.3
80°-90°	70.3	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°	661.5	24.7
0°-40°	1091.4	40.7
0°-60°	1987.7	74.2
0°-90°	2678.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	842	841	837	841	841	80
15°	813	813	812	818	817	229
25°	755	757	763	769	771	348
35°	670	675	686	699	702	419
45°	562	571	591	616	627	433
55°	434	450	490	529	547	387
65°	287	316	381	432	452	285
75°	136	185	258	302	311	145
85°	27	54	66	72	74	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.3	842.3	842.3	842.3	842.3
2.5°	843.7	843.7	839.7	842.3	842.3
5°	842.3	841.0	837.0	841.0	841.0
7.5°	838.4	837.0	834.4	838.4	837.0
10°	830.4	830.4	827.7	831.7	831.7
12.5°	823.7	822.4	821.1	826.4	825.1
15°	813.1	813.1	811.8	818.4	817.1
17.5°	799.8	801.2	802.5	807.8	809.1
20°	785.2	787.9	789.2	797.2	797.2
22.5°	771.9	773.3	775.9	783.9	783.9
25°	754.7	757.3	762.6	769.3	770.6
27.5°	737.4	738.7	745.4	754.7	756.0
30°	714.8	718.8	726.8	737.4	738.7
32.5°	694.9	698.8	708.2	718.8	721.4
35°	669.6	674.9	685.6	698.8	701.5
37.5°	647.0	651.0	664.3	678.9	682.9
40°	619.1	627.1	640.4	657.7	664.3
42.5°	591.2	599.2	615.1	637.7	645.7
45°	562.0	571.3	591.2	616.5	627.1
47.5°	532.8	543.4	566.0	595.2	607.2
50°	499.6	512.8	540.7	574.0	587.2
52.5°	467.7	483.6	514.2	551.4	568.6
55°	434.5	450.4	490.3	528.8	547.4
57.5°	397.3	418.5	462.4	506.2	526.1
60°	362.7	382.6	435.8	483.6	503.5
62.5°	325.5	352.1	409.2	459.7	479.6
65°	287.0	316.2	381.3	431.8	451.7
67.5°	252.4	284.3	353.4	403.9	423.8
70°	211.2	251.1	322.9	373.3	393.3
72.5°	172.7	216.6	291.0	340.1	358.7
75°	135.5	184.7	257.8	301.6	310.9
77.5°	101.0	152.8	223.2	241.8	235.2
80°	71.7	122.2	174.0	164.7	168.7
82.5°	46.5	93.0	107.6	122.2	126.2
85°	26.6	54.5	66.4	71.7	74.4
87.5°	12.0	19.9	26.6	26.6	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)