

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: P276747

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276747
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2697.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

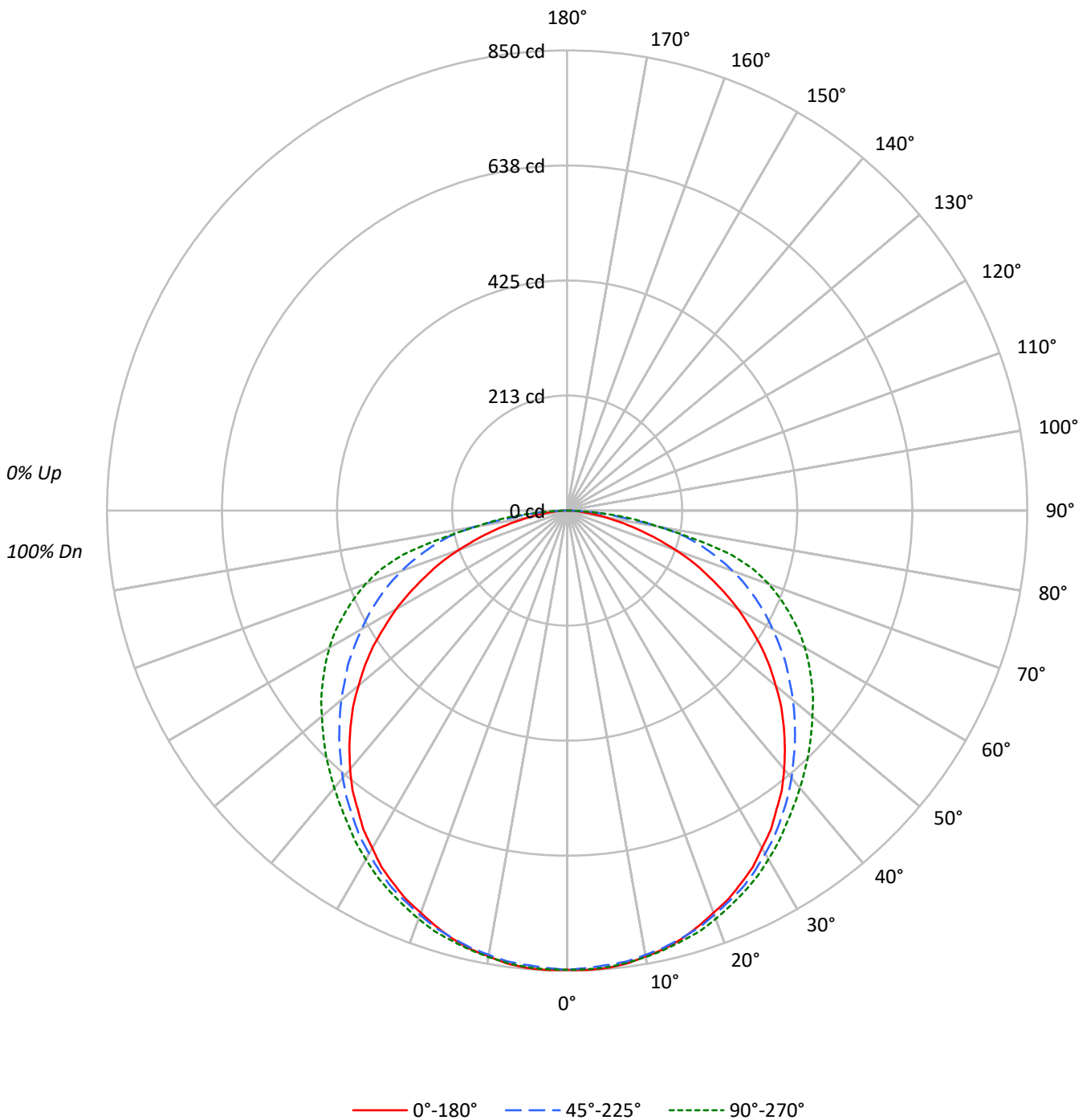
Input Watts (W): 31.371132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	1141	1141	1141
5°	1145	1138	1144
10°	1142	1139	1144
15°	1140	1139	1146
20°	1132	1138	1149
25°	1128	1140	1152
30°	1118	1137	1156
35°	1107	1134	1160
40°	1095	1133	1175
45°	1077	1133	1201
50°	1053	1140	1238
55°	1026	1158	1293
60°	983	1181	1364
65°	920	1222	1448
70°	837	1279	1558
75°	709	1349	1627
80°	559	1358	1316
85°	414	1033	1156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.0
10°-20°	231.5	8.6
20°-30°	354.1	13.1
30°-40°	432.9	16.0
40°-50°	461.3	17.1
50°-60°	441.1	16.4
60°-70°	373.7	13.9
70°-80°	251.1	9.3
80°-90°	70.8	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°	666.1	24.7
0°-40°	1098.9	40.7
0°-60°	2001.4	74.2
0°-90°	2697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	848	847	843	847	847	81
15°	819	819	817	824	823	231
25°	760	762	768	775	776	350
35°	674	680	690	704	706	422
45°	566	575	595	621	631	436
55°	437	454	494	532	551	390
65°	289	318	384	435	455	287
75°	136	186	260	304	313	146
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°	848.1	848.1	848.1	848.1	848.1
2.5°	849.5	849.5	845.5	848.1	848.1
5°	848.1	846.8	842.8	846.8	846.8
7.5°	844.1	842.8	840.1	844.1	842.8
10°	836.1	836.1	833.4	837.4	837.4
12.5°	829.4	828.1	826.7	832.1	830.7
15°	818.7	818.7	817.4	824.1	822.7
17.5°	805.3	806.7	808.0	813.3	814.7
20°	790.6	793.3	794.6	802.6	802.6
22.5°	777.2	778.6	781.2	789.3	789.3
25°	759.8	762.5	767.9	774.6	775.9
27.5°	742.4	743.8	750.5	759.8	761.2
30°	719.7	723.7	731.7	742.4	743.8
32.5°	699.6	703.7	713.0	723.7	726.4
35°	674.2	679.6	690.3	703.7	706.3
37.5°	651.5	655.5	668.9	683.6	687.6
40°	623.4	631.4	644.8	662.2	668.9
42.5°	595.3	603.3	619.4	642.1	650.1
45°	565.9	575.2	595.3	620.7	631.4
47.5°	536.4	547.1	569.9	599.3	611.3
50°	503.0	516.4	544.5	577.9	591.3
52.5°	470.9	486.9	517.7	555.2	572.6
55°	437.4	453.5	493.6	532.4	551.2
57.5°	400.0	421.4	465.5	509.7	529.7
60°	365.2	385.3	438.8	486.9	507.0
62.5°	327.7	354.5	412.0	462.9	482.9
65°	289.0	318.4	383.9	434.8	454.8
67.5°	254.2	286.3	355.8	406.7	426.7
70°	212.7	252.8	325.1	375.9	396.0
72.5°	173.9	218.1	293.0	342.5	361.2
75°	136.4	185.9	259.5	303.7	313.0
77.5°	101.7	153.8	224.7	243.5	236.8
80°	72.2	123.1	175.2	165.9	169.9
82.5°	46.8	93.6	108.4	123.1	127.1
85°	26.8	54.8	66.9	72.2	74.9
87.5°	12.0	20.1	26.8	26.8	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)