

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: P276796

Luminaire Tested: **24CZ2-40-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276796  
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: 24CZ2-40-RDP-UNV-L83050-W2A1-U-5000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2730.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 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

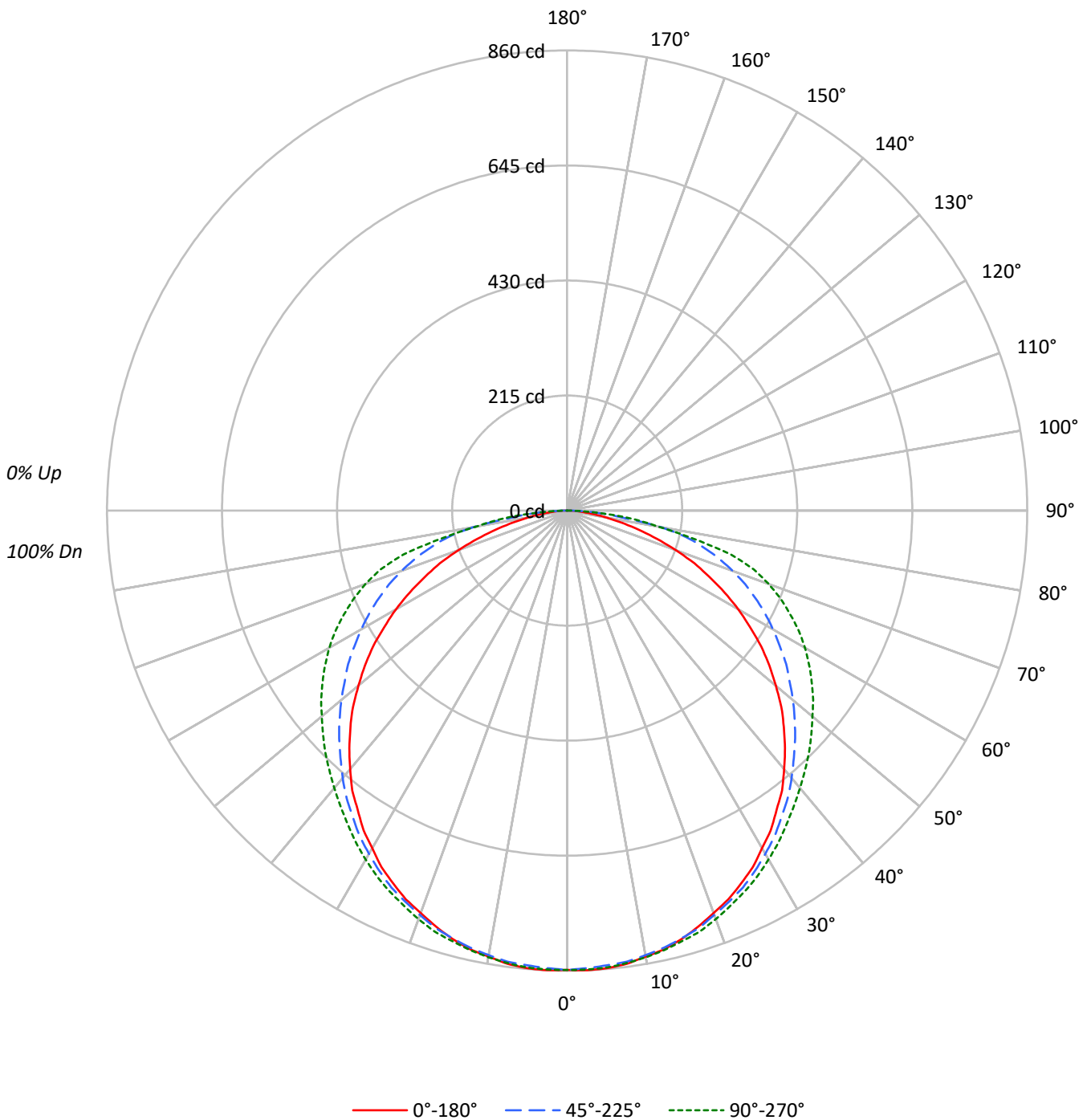
Input Watts (W): 31.901139  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1155	1155	1155
5°	1160	1152	1158
10°	1156	1153	1158
15°	1154	1153	1160
20°	1146	1152	1163
25°	1142	1154	1166
30°	1132	1151	1170
35°	1121	1148	1174
40°	1108	1146	1189
45°	1090	1147	1216
50°	1066	1154	1253
55°	1039	1172	1309
60°	995	1195	1381
65°	931	1237	1466
70°	847	1294	1577
75°	718	1366	1647
80°	566	1375	1333
85°	418	1045	1170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	3.0
10°-20°	234.4	8.6
20°-30°	358.4	13.1
30°-40°	438.2	16.0
40°-50°	467.0	17.1
50°-60°	446.5	16.4
60°-70°	378.2	13.9
70°-80°	254.2	9.3
80°-90°	71.7	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°	674.2	24.7
0°-40°	1112.4	40.7
0°-60°	2025.9	74.2
0°-90°	2730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2730.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	858	857	853	857	857	82
15°	829	829	827	834	833	234
25°	769	772	777	784	785	354
35°	682	688	699	712	715	428
45°	573	582	603	628	639	442
55°	443	459	500	539	558	394
65°	292	322	389	440	460	290
75°	138	188	263	307	317	148
85°	27	56	68	73	76	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	858.5	858.5	858.5	858.5	858.5
2.5°	859.9	859.9	855.8	858.5	858.5
5°	858.5	857.2	853.1	857.2	857.2
7.5°	854.4	853.1	850.4	854.4	853.1
10°	846.3	846.3	843.6	847.7	847.7
12.5°	839.5	838.2	836.8	842.3	840.9
15°	828.7	828.7	827.4	834.1	832.8
17.5°	815.2	816.5	817.9	823.3	824.7
20°	800.3	803.0	804.3	812.5	812.5
22.5°	786.7	788.1	790.8	798.9	798.9
25°	769.1	771.8	777.3	784.0	785.4
27.5°	751.5	752.9	759.7	769.1	770.5
30°	728.5	732.6	740.7	751.5	752.9
32.5°	708.2	712.3	721.7	732.6	735.3
35°	682.5	687.9	698.7	712.3	715.0
37.5°	659.5	663.5	677.1	692.0	696.0
40°	631.0	639.1	652.7	670.3	677.1
42.5°	602.6	610.7	627.0	650.0	658.1
45°	572.8	582.3	602.6	628.3	639.1
47.5°	543.0	553.8	576.9	606.6	618.8
50°	509.1	522.7	551.1	585.0	598.5
52.5°	476.6	492.9	524.0	562.0	579.6
55°	442.8	459.0	499.7	538.9	557.9
57.5°	404.9	426.5	471.2	515.9	536.2
60°	369.7	390.0	444.1	492.9	513.2
62.5°	331.8	358.8	417.1	468.5	488.8
65°	292.5	322.3	388.6	440.1	460.4
67.5°	257.3	289.8	360.2	411.7	432.0
70°	215.3	255.9	329.0	380.5	400.8
72.5°	176.0	220.7	296.6	346.7	365.6
75°	138.1	188.2	262.7	307.4	316.9
77.5°	102.9	155.7	227.5	246.4	239.7
80°	73.1	124.6	177.4	167.9	172.0
82.5°	47.4	94.8	109.7	124.6	128.6
85°	27.1	55.5	67.7	73.1	75.8
87.5°	12.2	20.3	27.1	27.1	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)