

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: P276797

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276797  
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-L83050-W2A1-U-3000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2725.0 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

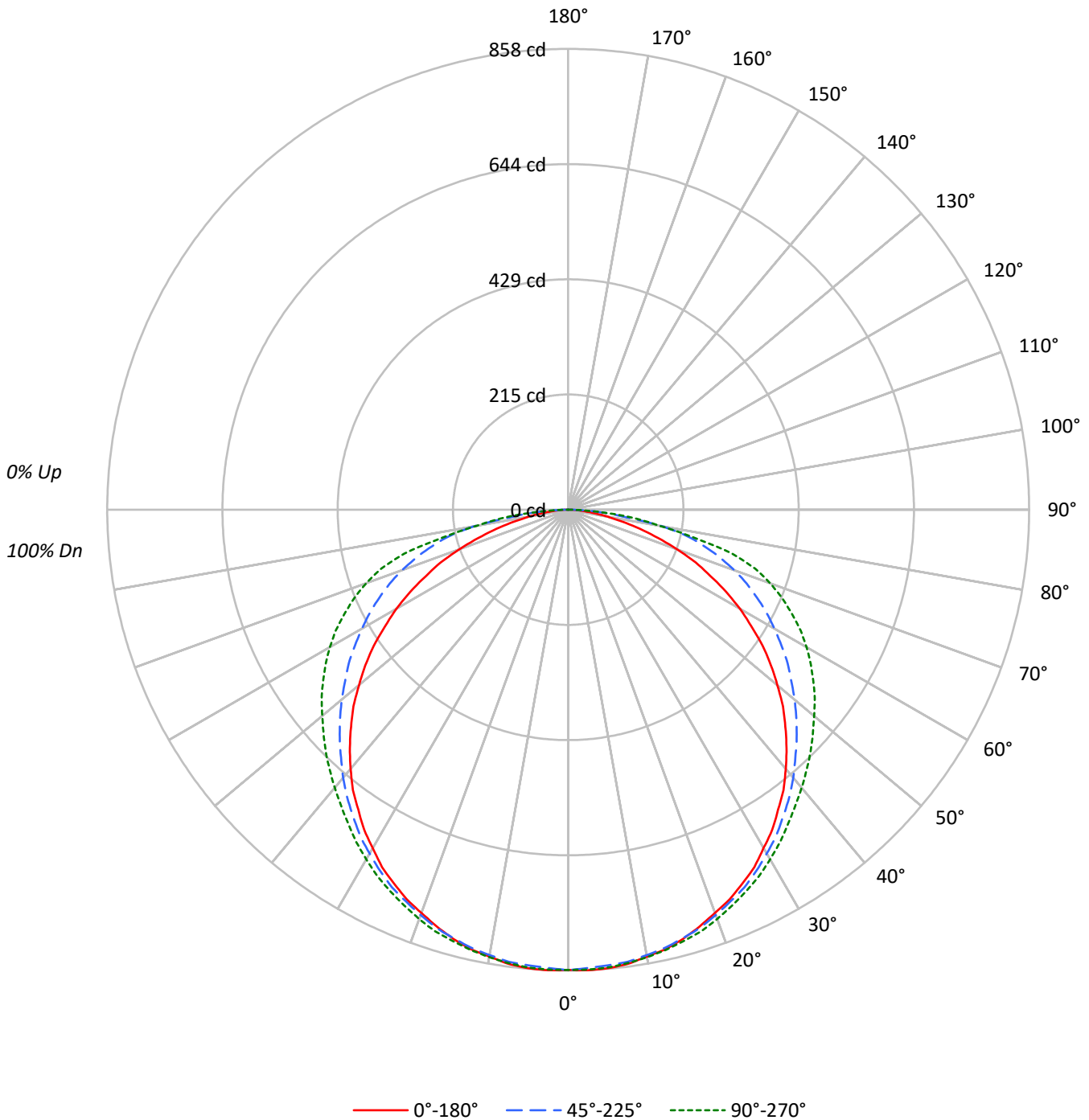
Input Watts (W): 34.898064  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1153	1153	1153
5°	1157	1150	1156
10°	1154	1151	1156
15°	1152	1150	1158
20°	1144	1150	1161
25°	1140	1152	1164
30°	1130	1149	1168
35°	1119	1146	1172
40°	1106	1144	1187
45°	1088	1145	1214
50°	1064	1151	1250
55°	1037	1170	1306
60°	993	1193	1379
65°	930	1235	1463
70°	845	1292	1574
75°	717	1363	1644
80°	566	1372	1330
85°	417	1044	1169



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.3	3.0
10°-20°	233.9	8.6
20°-30°	357.8	13.1
30°-40°	437.3	16.0
40°-50°	466.1	17.1
50°-60°	445.7	16.4
60°-70°	377.5	13.9
70°-80°	253.7	9.3
80°-90°	71.6	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°	673.0	24.7
0°-40°	1110.3	40.7
0°-60°	2022.1	74.2
0°-90°	2725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	857	856	852	856	856	81
15°	827	827	826	833	831	233
25°	768	770	776	783	784	354
35°	681	687	697	711	714	427
45°	572	581	602	627	638	441
55°	442	458	499	538	557	394
65°	292	322	388	439	460	290
75°	138	188	262	307	316	148
85°	27	55	68	73	76	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	856.9	856.9	856.9	856.9	856.9
2.5°	858.3	858.3	854.2	856.9	856.9
5°	856.9	855.6	851.5	855.6	855.6
7.5°	852.9	851.5	848.8	852.9	851.5
10°	844.8	844.8	842.1	846.1	846.1
12.5°	838.0	836.7	835.3	840.7	839.4
15°	827.2	827.2	825.8	832.6	831.3
17.5°	813.7	815.0	816.4	821.8	823.1
20°	798.8	801.5	802.9	811.0	811.0
22.5°	785.3	786.6	789.4	797.5	797.5
25°	767.7	770.4	775.8	782.6	783.9
27.5°	750.2	751.5	758.3	767.7	769.1
30°	727.2	731.2	739.3	750.2	751.5
32.5°	706.9	711.0	720.4	731.2	733.9
35°	681.2	686.6	697.4	711.0	713.7
37.5°	658.2	662.3	675.8	690.7	694.7
40°	629.9	638.0	651.5	669.1	675.8
42.5°	601.5	609.6	625.8	648.8	656.9
45°	571.7	581.2	601.5	627.2	638.0
47.5°	542.0	552.8	575.8	605.5	617.7
50°	508.2	521.7	550.1	583.9	597.4
52.5°	475.8	492.0	523.1	560.9	578.5
55°	442.0	458.2	498.8	537.9	556.9
57.5°	404.1	425.8	470.4	515.0	535.2
60°	369.0	389.3	443.3	492.0	512.3
62.5°	331.1	358.2	416.3	467.7	487.9
65°	292.0	321.7	387.9	439.3	459.6
67.5°	256.8	289.2	359.5	410.9	431.2
70°	214.9	255.5	328.4	379.8	400.1
72.5°	175.7	220.3	296.0	346.0	364.9
75°	137.9	187.9	262.2	306.8	316.3
77.5°	102.7	155.4	227.1	246.0	239.2
80°	73.0	124.4	177.1	167.6	171.7
82.5°	47.3	94.6	109.5	124.4	128.4
85°	27.0	55.4	67.6	73.0	75.7
87.5°	12.2	20.3	27.0	27.0	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)