

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: P276877

Luminaire Tested: **24CZ2-50-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276877
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: 24CZ2-50-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2476.0 lumens
Efficiency: N/A
Efficacy: 60.9 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

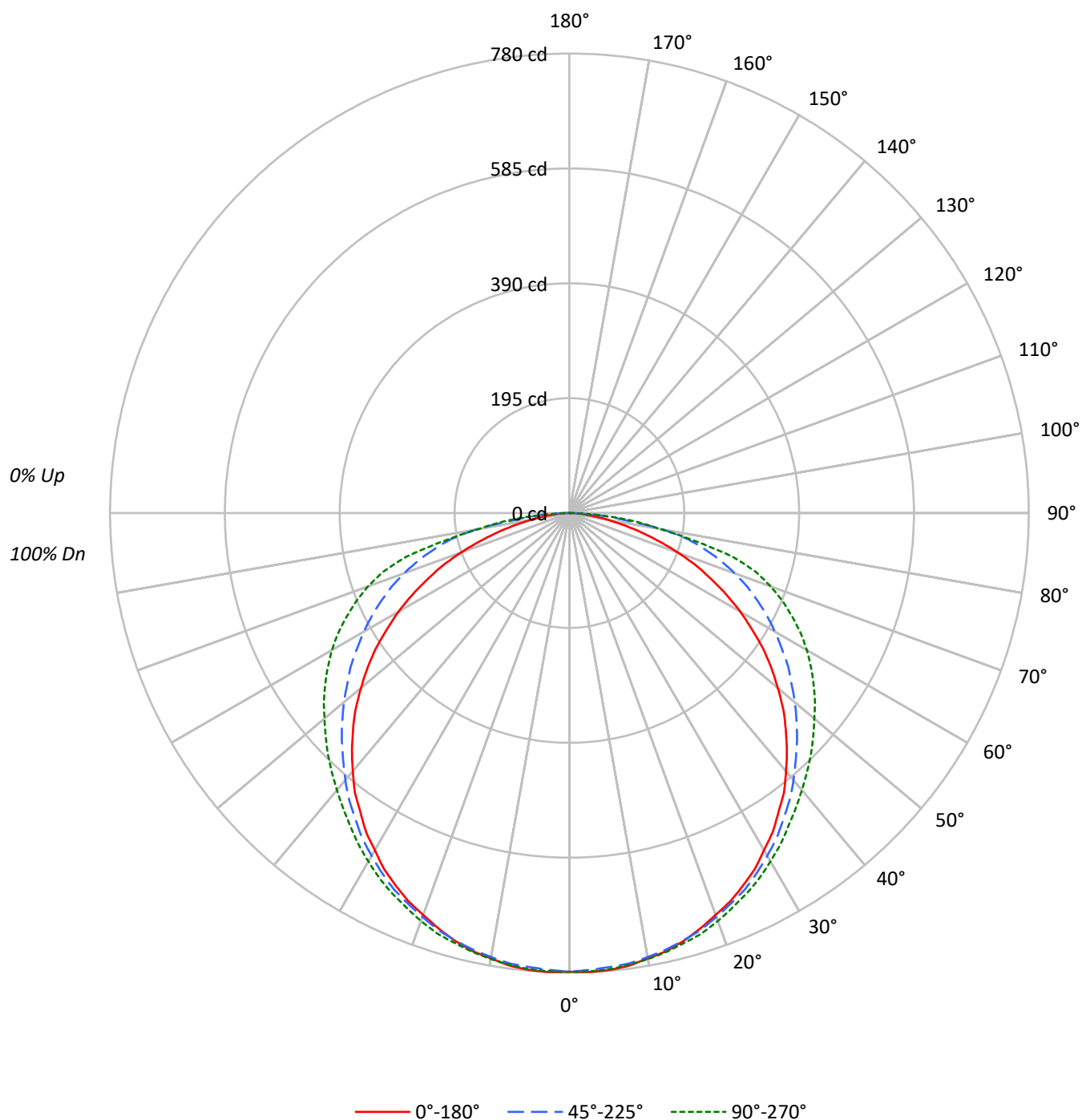
Input Watts (W): 40.624353
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	98	94	105	100	96	92		96	93	89		92	89	87		88	86	84
2	97	89	81	75	95	87	80	74		83	77	72		80	75	71		77	73	69
3	88	77	68	62	86	76	67	61		72	66	60		70	64	59		67	62	58
4	81	68	59	52	78	67	58	51		64	57	51		62	55	50		59	54	49
5	74	60	51	44	72	59	51	44		57	49	43		55	48	43		53	47	42
6	68	54	45	38	66	53	45	38		51	44	38		50	43	37		48	42	37
7	63	49	40	34	61	48	40	34		47	39	33		45	38	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		41	34	29		40	34	29
9	55	41	33	27	53	40	32	27		39	32	27		38	31	26		37	31	26
10	51	38	30	24	50	37	29	24		36	29	24		35	29	24		34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1048	1048	1048
5°	1052	1045	1050
10°	1049	1045	1050
15°	1047	1045	1052
20°	1039	1045	1055
25°	1036	1046	1057
30°	1026	1044	1061
35°	1017	1041	1065
40°	1005	1040	1079
45°	989	1040	1103
50°	967	1046	1136
55°	942	1063	1187
60°	902	1084	1253
65°	845	1122	1330
70°	768	1174	1430
75°	651	1239	1494
80°	514	1247	1209
85°	380	948	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.0
10°-20°	212.6	8.6
20°-30°	325.1	13.1
30°-40°	397.4	16.0
40°-50°	423.5	17.1
50°-60°	405.0	16.4
60°-70°	343.0	13.9
70°-80°	230.6	9.3
80°-90°	65.0	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°	611.5	24.7
0°-40°	1008.9	40.7
0°-60°	1837.4	74.2
0°-90°	2476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	779	777	774	777	777	74
15°	752	752	750	756	755	212
25°	698	700	705	711	712	322
35°	619	624	634	646	648	388
45°	520	528	546	570	580	401
55°	402	416	453	489	506	358
65°	265	292	352	399	418	263
75°	125	171	238	279	287	134
85°	25	50	61	66	69	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.6	778.6	778.6	778.6	778.6
2.5°	779.9	779.9	776.2	778.6	778.6
5°	778.6	777.4	773.7	777.4	777.4
7.5°	774.9	773.7	771.3	774.9	773.7
10°	767.6	767.6	765.1	768.8	768.8
12.5°	761.4	760.2	759.0	763.9	762.7
15°	751.6	751.6	750.4	756.5	755.3
17.5°	739.3	740.6	741.8	746.7	747.9
20°	725.8	728.3	729.5	736.9	736.9
22.5°	713.5	714.8	717.2	724.6	724.6
25°	697.6	700.0	704.9	711.1	712.3
27.5°	681.6	682.8	689.0	697.6	698.8
30°	660.7	664.4	671.8	681.6	682.8
32.5°	642.3	646.0	654.6	664.4	666.9
35°	619.0	623.9	633.7	646.0	648.4
37.5°	598.1	601.8	614.1	627.6	631.3
40°	572.3	579.7	592.0	607.9	614.1
42.5°	546.5	553.9	568.6	589.5	596.9
45°	519.5	528.1	546.5	569.8	579.7
47.5°	492.5	502.3	523.2	550.2	561.2
50°	461.8	474.1	499.8	530.5	542.8
52.5°	432.3	447.0	475.3	509.7	525.6
55°	401.6	416.3	453.2	488.8	506.0
57.5°	367.2	386.9	427.4	467.9	486.3
60°	335.3	353.7	402.8	447.0	465.5
62.5°	300.9	325.5	378.3	424.9	443.3
65°	265.3	292.3	352.5	399.1	417.6
67.5°	233.3	262.8	326.7	373.3	391.8
70°	195.3	232.1	298.4	345.1	363.5
72.5°	159.7	200.2	269.0	314.4	331.6
75°	125.3	170.7	238.3	278.8	287.4
77.5°	93.3	141.2	206.3	223.5	217.4
80°	66.3	113.0	160.9	152.3	156.0
82.5°	43.0	86.0	99.5	113.0	116.7
85°	24.6	50.4	61.4	66.3	68.8
87.5°	11.1	18.4	24.6	24.6	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)