

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: P277146

Luminaire Tested: **24CZ2-50-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277146
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-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2810.9 lumens
Efficiency: N/A
Efficacy: 70.0 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

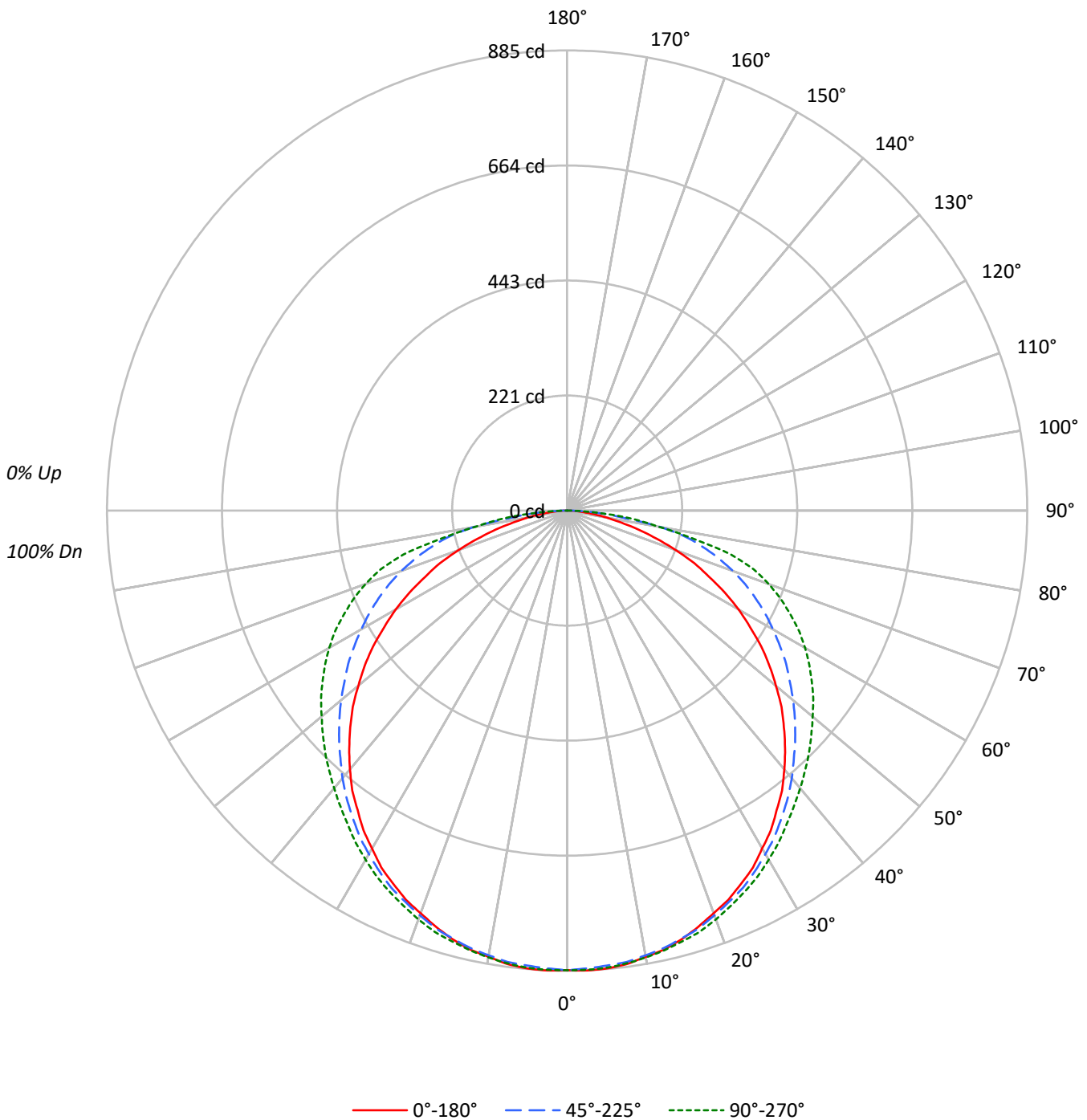
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1189	1189	1189
5°	1194	1186	1192
10°	1191	1187	1192
15°	1189	1187	1194
20°	1180	1186	1198
25°	1176	1188	1201
30°	1165	1185	1204
35°	1154	1182	1209
40°	1141	1180	1224
45°	1122	1181	1252
50°	1097	1188	1290
55°	1069	1207	1347
60°	1024	1231	1422
65°	959	1274	1509
70°	872	1333	1624
75°	739	1406	1696
80°	583	1415	1372
85°	431	1076	1206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.0
10°-20°	241.3	8.6
20°-30°	369.0	13.1
30°-40°	451.1	16.0
40°-50°	480.8	17.1
50°-60°	459.7	16.4
60°-70°	389.5	13.9
70°-80°	261.7	9.3
80°-90°	73.8	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°	694.2	24.7
0°-40°	1145.4	40.7
0°-60°	2085.9	74.2
0°-90°	2810.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2810.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	884	883	878	883	883	84
15°	853	853	852	859	858	241
25°	792	795	800	807	809	365
35°	703	708	719	733	736	440
45°	590	600	620	647	658	455
55°	456	473	514	555	574	406
65°	301	332	400	453	474	299
75°	142	194	270	316	326	152
85°	28	57	70	75	78	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.0	884.0	884.0	884.0	884.0
2.5°	885.4	885.4	881.2	884.0	884.0
5°	884.0	882.6	878.4	882.6	882.6
7.5°	879.8	878.4	875.6	879.8	878.4
10°	871.4	871.4	868.6	872.8	872.8
12.5°	864.4	863.0	861.6	867.2	865.8
15°	853.3	853.3	851.9	858.9	857.5
17.5°	839.3	840.7	842.1	847.7	849.1
20°	824.0	826.8	828.2	836.6	836.6
22.5°	810.1	811.5	814.2	822.6	822.6
25°	791.9	794.7	800.3	807.3	808.7
27.5°	773.8	775.2	782.2	791.9	793.3
30°	750.1	754.3	762.7	773.8	775.2
32.5°	729.2	733.4	743.1	754.3	757.1
35°	702.7	708.3	719.4	733.4	736.2
37.5°	679.0	683.2	697.1	712.5	716.6
40°	649.7	658.1	672.0	690.2	697.1
42.5°	620.4	628.8	645.5	669.2	677.6
45°	589.8	599.5	620.4	646.9	658.1
47.5°	559.1	570.2	594.0	624.6	637.2
50°	524.2	538.2	567.5	602.3	616.3
52.5°	490.8	507.5	539.6	578.6	596.7
55°	455.9	472.7	514.5	554.9	574.4
57.5°	416.9	439.2	485.2	531.2	552.1
60°	380.6	401.5	457.3	507.5	528.4
62.5°	341.6	369.5	429.4	482.4	503.3
65°	301.2	331.8	400.2	453.1	474.0
67.5°	264.9	298.4	370.9	423.9	444.8
70°	221.7	263.5	338.8	391.8	412.7
72.5°	181.3	227.3	305.3	356.9	376.4
75°	142.2	193.8	270.5	316.5	326.3
77.5°	106.0	160.3	234.2	253.8	246.8
80°	75.3	128.3	182.6	172.9	177.1
82.5°	48.8	97.6	112.9	128.3	132.5
85°	27.9	57.2	69.7	75.3	78.1
87.5°	12.5	20.9	27.9	27.9	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)