

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: P276793

Luminaire Tested: **24CZ2-40-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276793
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2576.0 lumens
Efficiency: N/A
Efficacy: 84.7 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

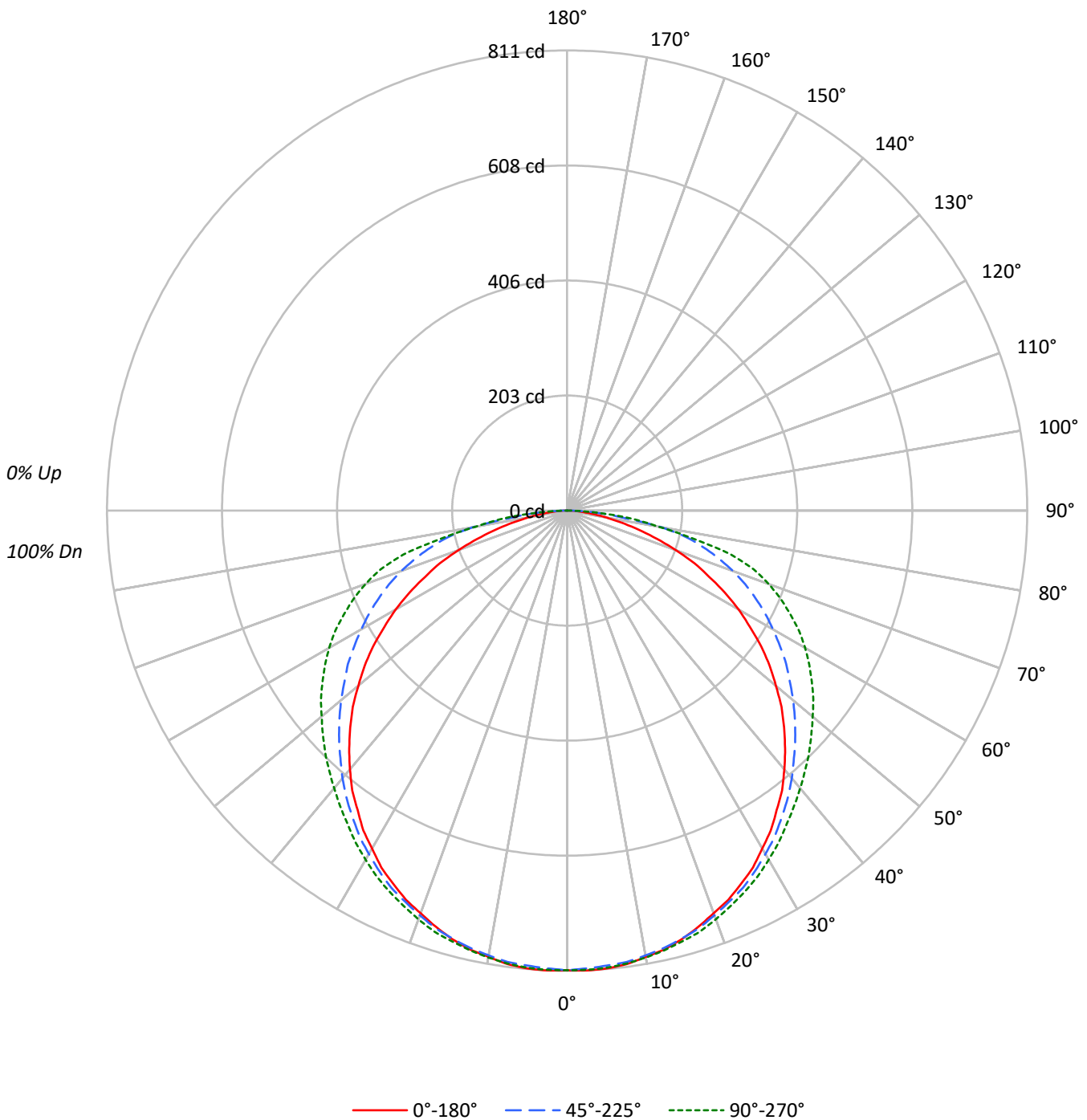
Input Watts (W): 30.411
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1090	1090	1090
5°	1094	1087	1092
10°	1091	1088	1093
15°	1089	1087	1095
20°	1081	1087	1098
25°	1077	1089	1100
30°	1068	1086	1104
35°	1058	1083	1108
40°	1046	1082	1122
45°	1028	1082	1148
50°	1006	1088	1182
55°	980	1106	1235
60°	939	1128	1303
65°	879	1167	1383
70°	799	1221	1488
75°	677	1289	1554
80°	535	1297	1258
85°	395	986	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.0
10°-20°	221.2	8.6
20°-30°	338.2	13.1
30°-40°	413.4	16.0
40°-50°	440.6	17.1
50°-60°	421.3	16.4
60°-70°	356.9	13.9
70°-80°	239.9	9.3
80°-90°	67.7	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°	636.2	24.7
0°-40°	1049.6	40.7
0°-60°	1911.6	74.2
0°-90°	2576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	810	809	805	809	809	77
15°	782	782	781	787	786	220
25°	726	728	733	740	741	334
35°	644	649	659	672	675	403
45°	540	549	569	593	603	417
55°	418	433	472	508	526	372
65°	276	304	367	415	434	274
75°	130	178	248	290	299	140
85°	26	52	64	69	72	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.1	810.1	810.1	810.1	810.1
2.5°	811.4	811.4	807.5	810.1	810.1
5°	810.1	808.8	805.0	808.8	808.8
7.5°	806.2	805.0	802.4	806.2	805.0
10°	798.6	798.6	796.0	799.9	799.9
12.5°	792.2	790.9	789.6	794.7	793.5
15°	782.0	782.0	780.7	787.1	785.8
17.5°	769.2	770.5	771.7	776.9	778.1
20°	755.1	757.7	759.0	766.6	766.6
22.5°	742.4	743.6	746.2	753.9	753.9
25°	725.7	728.3	733.4	739.8	741.1
27.5°	709.1	710.4	716.8	725.7	727.0
30°	687.4	691.2	698.9	709.1	710.4
32.5°	668.3	672.1	681.0	691.2	693.8
35°	644.0	649.1	659.3	672.1	674.6
37.5°	622.3	626.1	638.9	652.9	656.8
40°	595.4	603.1	615.9	632.5	638.9
42.5°	568.6	576.3	591.6	613.3	621.0
45°	540.5	549.4	568.6	592.9	603.1
47.5°	512.4	522.6	544.3	572.4	583.9
50°	480.4	493.2	520.0	552.0	564.8
52.5°	449.8	465.1	494.5	530.3	546.9
55°	417.8	433.1	471.5	508.5	526.4
57.5°	382.0	402.5	444.6	486.8	506.0
60°	348.8	368.0	419.1	465.1	484.3
62.5°	313.0	338.6	393.5	442.1	461.3
65°	276.0	304.1	366.7	415.3	434.4
67.5°	242.8	273.4	339.9	388.4	407.6
70°	203.2	241.5	310.5	359.0	378.2
72.5°	166.1	208.3	279.8	327.1	345.0
75°	130.3	177.6	247.9	290.0	299.0
77.5°	97.1	146.9	214.7	232.5	226.2
80°	69.0	117.6	167.4	158.4	162.3
82.5°	44.7	89.4	103.5	117.6	121.4
85°	25.6	52.4	63.9	69.0	71.6
87.5°	11.5	19.2	25.6	25.6	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)