

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: P276744

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276744
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: 24CZ2-40HE-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2721.0 lumens
Efficiency: N/A
Efficacy: 94.1 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

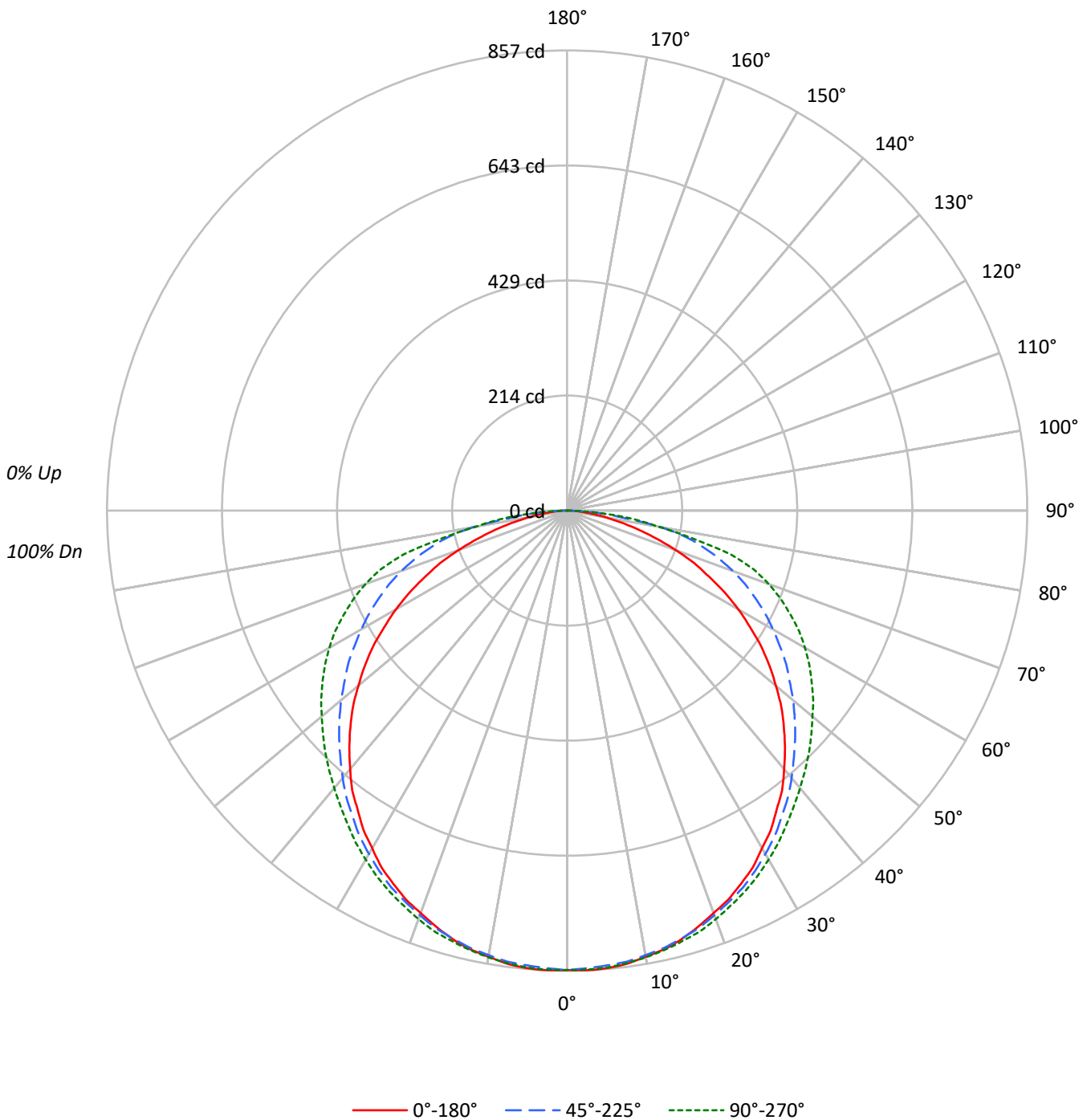
Input Watts (W): 28.922256
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1151	1151	1151
5°	1156	1148	1154
10°	1152	1149	1154
15°	1151	1149	1156
20°	1142	1148	1160
25°	1138	1150	1162
30°	1128	1147	1166
35°	1117	1144	1170
40°	1105	1143	1185
45°	1086	1143	1212
50°	1062	1150	1249
55°	1035	1168	1304
60°	992	1191	1376
65°	928	1233	1461
70°	844	1290	1572
75°	716	1361	1642
80°	565	1370	1328
85°	417	1042	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	3.0
10°-20°	233.6	8.6
20°-30°	357.2	13.1
30°-40°	436.7	16.0
40°-50°	465.4	17.1
50°-60°	445.0	16.4
60°-70°	377.0	13.9
70°-80°	253.4	9.3
80°-90°	71.5	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°	672.0	24.7
0°-40°	1108.7	40.7
0°-60°	2019.2	74.2
0°-90°	2721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	856	854	850	854	854	81
15°	826	826	825	831	830	233
25°	767	769	775	781	783	353
35°	680	686	696	710	713	426
45°	571	580	601	626	637	440
55°	441	458	498	537	556	393
65°	292	321	387	439	459	289
75°	138	188	262	306	316	147
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°	855.7	855.7	855.7	855.7	855.7
2.5°	857.0	857.0	853.0	855.7	855.7
5°	855.7	854.3	850.3	854.3	854.3
7.5°	851.6	850.3	847.6	851.6	850.3
10°	843.5	843.5	840.8	844.9	844.9
12.5°	836.8	835.4	834.1	839.5	838.1
15°	826.0	826.0	824.6	831.4	830.0
17.5°	812.5	813.8	815.2	820.6	821.9
20°	797.6	800.3	801.7	809.8	809.8
22.5°	784.1	785.5	788.2	796.3	796.3
25°	766.6	769.3	774.7	781.4	782.8
27.5°	749.1	750.4	757.2	766.6	767.9
30°	726.1	730.2	738.3	749.1	750.4
32.5°	705.9	709.9	719.4	730.2	732.9
35°	680.2	685.6	696.4	709.9	712.6
37.5°	657.3	661.3	674.8	689.7	693.7
40°	628.9	637.0	650.5	668.1	674.8
42.5°	600.6	608.7	624.9	647.8	655.9
45°	570.9	580.3	600.6	626.2	637.0
47.5°	541.2	552.0	575.0	604.6	616.8
50°	507.5	521.0	549.3	583.0	596.5
52.5°	475.1	491.3	522.3	560.1	577.6
55°	441.3	457.5	498.0	537.2	556.1
57.5°	403.5	425.1	469.7	514.2	534.5
60°	368.5	388.7	442.7	491.3	511.5
62.5°	330.7	357.7	415.7	467.0	487.2
65°	291.5	321.2	387.3	438.6	458.9
67.5°	256.4	288.8	359.0	410.3	430.5
70°	214.6	255.1	328.0	379.3	399.5
72.5°	175.5	220.0	295.6	345.5	364.4
75°	137.7	187.6	261.8	306.4	315.8
77.5°	102.6	155.2	226.7	245.6	238.9
80°	72.9	124.2	176.8	167.4	171.4
82.5°	47.2	94.5	109.3	124.2	128.2
85°	27.0	55.3	67.5	72.9	75.6
87.5°	12.1	20.2	27.0	27.0	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)