

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: P276903

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276903
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-L82765-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: 2587.0 lumens
Efficiency: N/A
Efficacy: 90.3 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

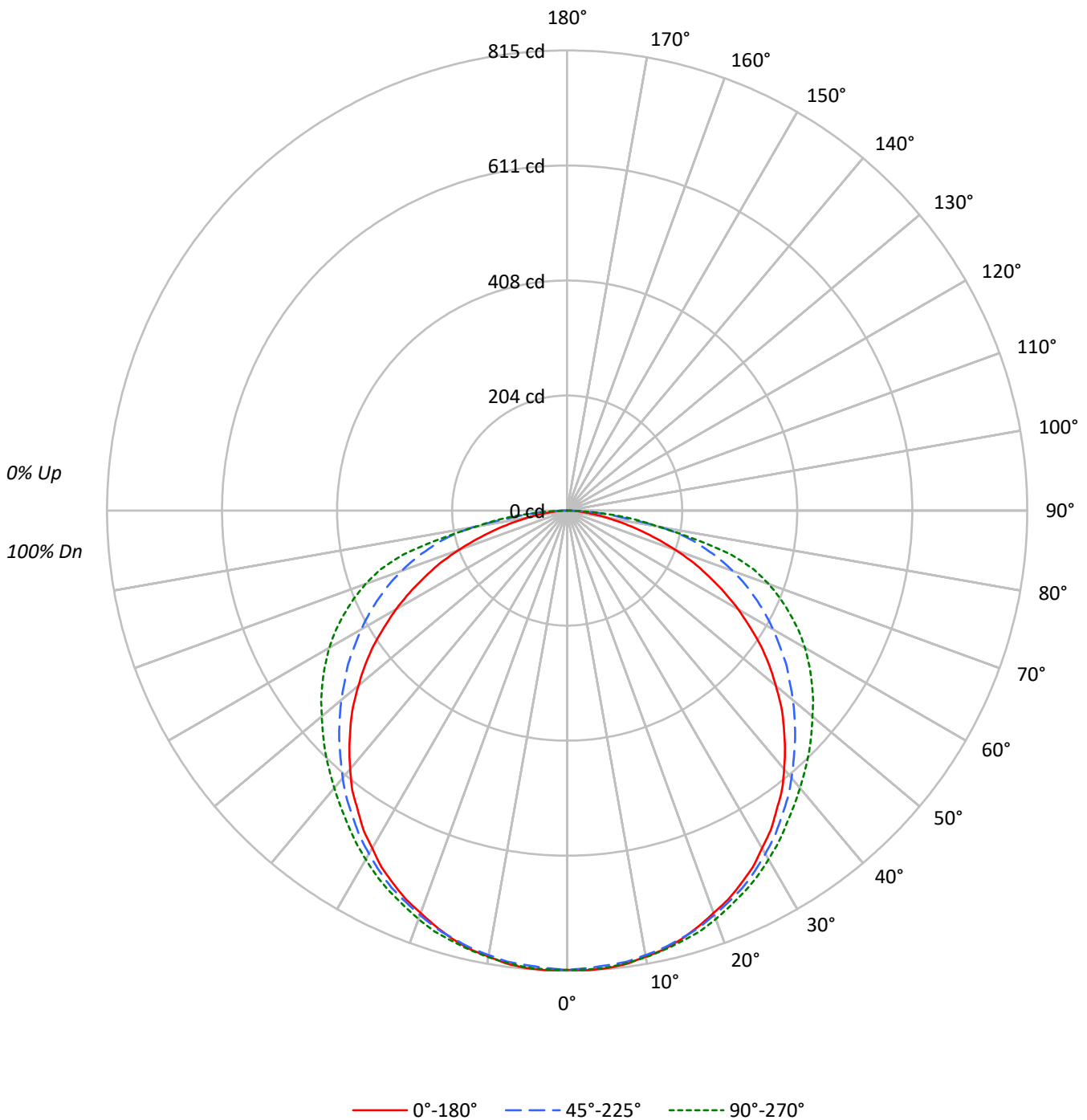
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1095	1095	1095
5°	1099	1092	1097
10°	1096	1092	1098
15°	1094	1092	1099
20°	1086	1091	1102
25°	1082	1093	1105
30°	1072	1090	1108
35°	1062	1088	1113
40°	1050	1086	1127
45°	1033	1087	1153
50°	1010	1093	1187
55°	984	1111	1240
60°	943	1133	1309
65°	883	1173	1389
70°	803	1227	1494
75°	680	1294	1561
80°	537	1303	1263
85°	397	991	1110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.0
10°-20°	222.1	8.6
20°-30°	339.6	13.1
30°-40°	415.2	16.0
40°-50°	442.5	17.1
50°-60°	423.1	16.4
60°-70°	358.4	13.9
70°-80°	240.9	9.3
80°-90°	68.0	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°	638.9	24.7
0°-40°	1054.1	40.7
0°-60°	1919.7	74.2
0°-90°	2587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	814	812	808	812	812	77
15°	785	785	784	790	789	221
25°	729	731	736	743	744	336
35°	647	652	662	675	678	405
45°	543	552	571	595	606	419
55°	420	435	474	511	529	374
65°	277	305	368	417	436	275
75°	131	178	249	291	300	140
85°	26	53	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°	813.5	813.5	813.5	813.5	813.5
2.5°	814.8	814.8	811.0	813.5	813.5
5°	813.5	812.2	808.4	812.2	812.2
7.5°	809.7	808.4	805.8	809.7	808.4
10°	802.0	802.0	799.4	803.3	803.3
12.5°	795.6	794.3	793.0	798.1	796.8
15°	785.3	785.3	784.0	790.4	789.1
17.5°	772.5	773.8	775.0	780.2	781.4
20°	758.4	760.9	762.2	769.9	769.9
22.5°	745.5	746.8	749.4	757.1	757.1
25°	728.8	731.4	736.5	743.0	744.2
27.5°	712.2	713.4	719.9	728.8	730.1
30°	690.3	694.2	701.9	712.2	713.4
32.5°	671.1	674.9	683.9	694.2	696.8
35°	646.7	651.8	662.1	674.9	677.5
37.5°	624.9	628.8	641.6	655.7	659.5
40°	598.0	605.7	618.5	635.2	641.6
42.5°	571.0	578.7	594.1	615.9	623.6
45°	542.8	551.8	571.0	595.4	605.7
47.5°	514.6	524.8	546.6	574.9	586.4
50°	482.5	495.3	522.2	554.3	567.2
52.5°	451.7	467.1	496.6	532.5	549.2
55°	419.6	435.0	473.5	510.7	528.7
57.5°	383.7	404.2	446.5	488.9	508.1
60°	350.3	369.6	420.9	467.1	486.3
62.5°	314.4	340.0	395.2	444.0	463.2
65°	277.2	305.4	368.3	417.0	436.3
67.5°	243.8	274.6	341.3	390.1	409.3
70°	204.0	242.5	311.8	360.6	379.8
72.5°	166.8	209.2	281.0	328.5	346.5
75°	130.9	178.4	248.9	291.3	300.3
77.5°	97.5	147.6	215.6	233.5	227.1
80°	69.3	118.1	168.1	159.1	163.0
82.5°	44.9	89.8	103.9	118.1	121.9
85°	25.7	52.6	64.2	69.3	71.9
87.5°	11.5	19.2	25.7	25.7	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)