

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: P276743

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276743
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2591.0 lumens
Efficiency: N/A
Efficacy: 91.6 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

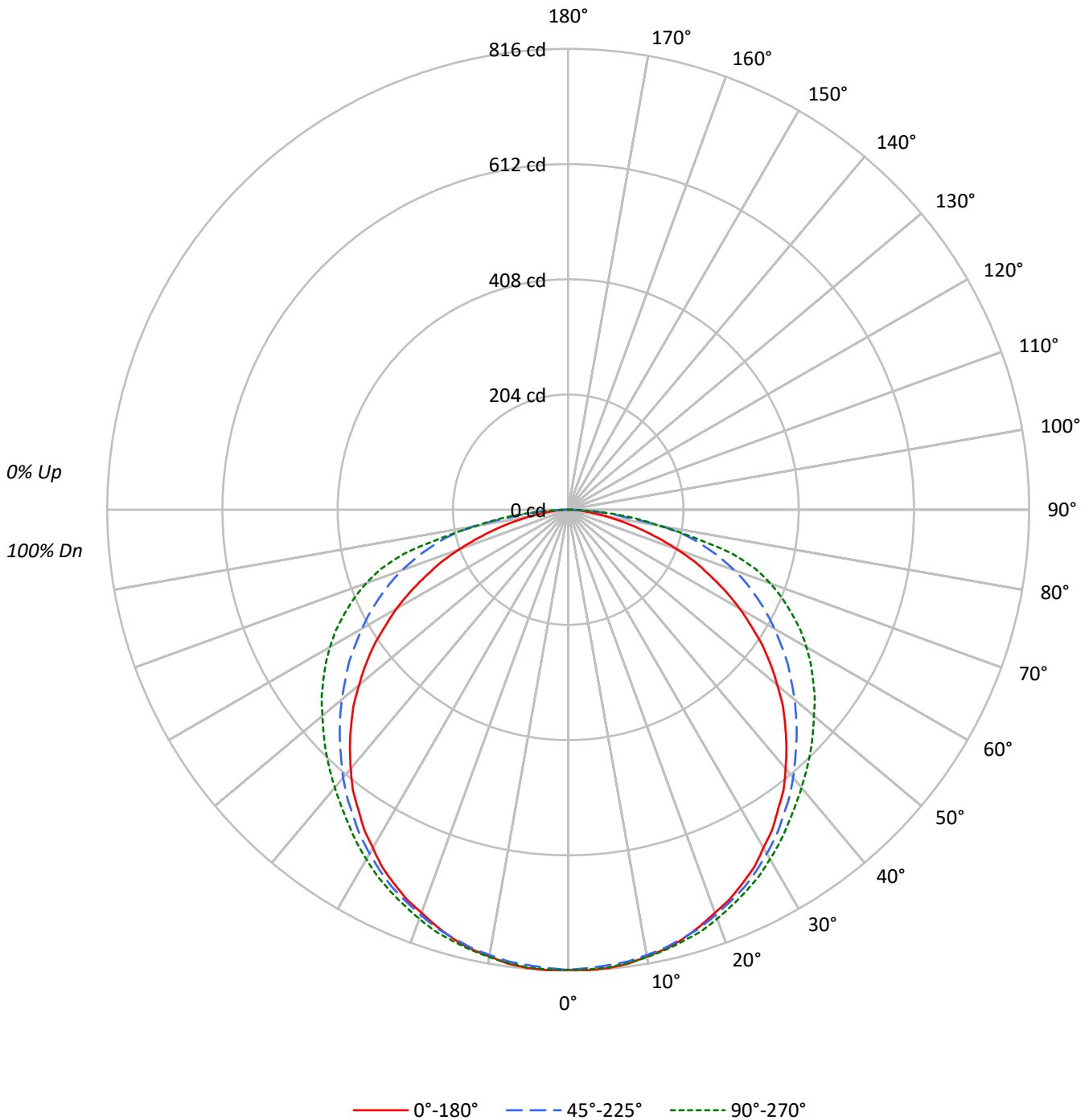
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1096	1096	1096
5°	1100	1094	1099
10°	1097	1094	1099
15°	1096	1094	1101
20°	1087	1093	1104
25°	1084	1095	1107
30°	1074	1092	1110
35°	1064	1089	1115
40°	1052	1088	1129
45°	1034	1088	1154
50°	1011	1095	1189
55°	986	1112	1242
60°	944	1134	1311
65°	884	1174	1391
70°	804	1229	1496
75°	682	1296	1563
80°	538	1305	1265
85°	397	993	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.0
10°-20°	222.4	8.6
20°-30°	340.2	13.1
30°-40°	415.8	16.0
40°-50°	443.2	17.1
50°-60°	423.8	16.4
60°-70°	359.0	13.9
70°-80°	241.3	9.3
80°-90°	68.1	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°	639.9	24.7
0°-40°	1055.7	40.7
0°-60°	1922.7	74.2
0°-90°	2591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	815	814	810	814	814	77
15°	786	786	785	792	790	222
25°	730	732	738	744	745	336
35°	648	653	663	676	679	406
45°	544	553	572	596	607	419
55°	420	436	474	512	530	374
65°	278	306	369	418	437	276
75°	131	179	249	292	301	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°	814.8	814.8	814.8	814.8	814.8
2.5°	816.1	816.1	812.2	814.8	814.8
5°	814.8	813.5	809.7	813.5	813.5
7.5°	810.9	809.7	807.1	810.9	809.7
10°	803.2	803.2	800.7	804.5	804.5
12.5°	796.8	795.5	794.2	799.4	798.1
15°	786.5	786.5	785.2	791.7	790.4
17.5°	773.7	775.0	776.2	781.4	782.7
20°	759.5	762.1	763.4	771.1	771.1
22.5°	746.7	748.0	750.5	758.2	758.2
25°	730.0	732.5	737.7	744.1	745.4
27.5°	713.3	714.6	721.0	730.0	731.3
30°	691.4	695.3	703.0	713.3	714.6
32.5°	672.1	676.0	685.0	695.3	697.8
35°	647.7	652.9	663.1	676.0	678.6
37.5°	625.9	629.7	642.6	656.7	660.6
40°	598.9	606.6	619.5	636.2	642.6
42.5°	571.9	579.6	595.0	616.9	624.6
45°	543.6	552.6	571.9	596.3	606.6
47.5°	515.4	525.6	547.5	575.8	587.3
50°	483.2	496.1	523.1	555.2	568.0
52.5°	452.4	467.8	497.4	533.3	550.1
55°	420.2	435.7	474.2	511.5	529.5
57.5°	384.3	404.8	447.2	489.6	508.9
60°	350.9	370.1	421.5	467.8	487.1
62.5°	314.9	340.6	395.8	444.7	463.9
65°	277.6	305.9	368.8	417.7	437.0
67.5°	244.2	275.0	341.9	390.7	410.0
70°	204.3	242.9	312.3	361.1	380.4
72.5°	167.1	209.5	281.5	329.0	347.0
75°	131.1	178.6	249.3	291.7	300.7
77.5°	97.7	147.8	215.9	233.9	227.5
80°	69.4	118.2	168.4	159.4	163.2
82.5°	45.0	90.0	104.1	118.2	122.1
85°	25.7	52.7	64.3	69.4	72.0
87.5°	11.6	19.3	25.7	25.7	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)