

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: P277042

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277042
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-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2443.2 lumens
Efficiency: N/A
Efficacy: 83.9 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

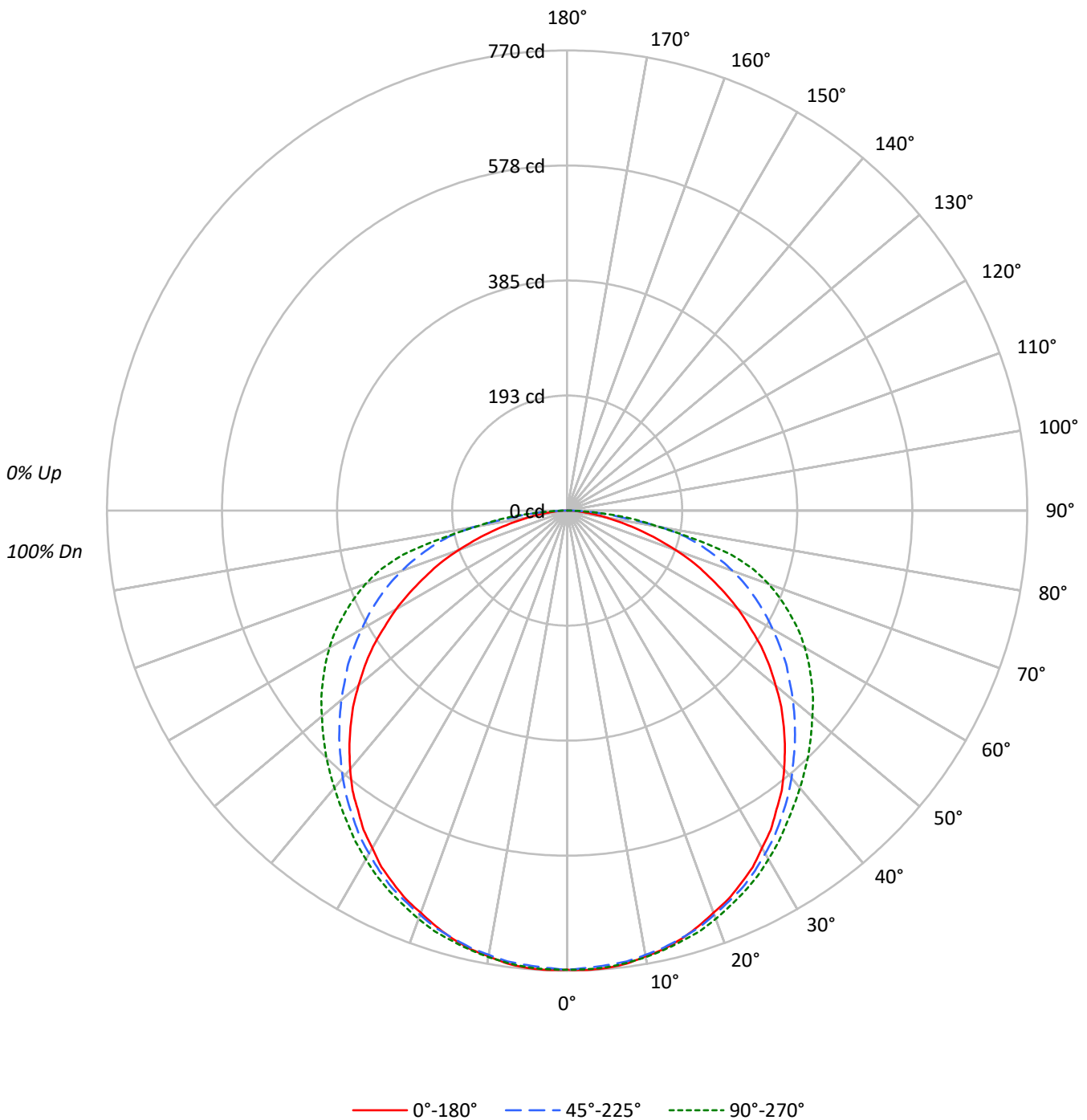
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1034	1034	1034
5°	1038	1031	1036
10°	1035	1032	1036
15°	1033	1031	1038
20°	1025	1031	1041
25°	1022	1033	1044
30°	1013	1030	1047
35°	1003	1027	1051
40°	992	1026	1064
45°	975	1026	1088
50°	954	1032	1121
55°	930	1049	1171
60°	890	1070	1236
65°	833	1107	1312
70°	758	1159	1411
75°	643	1222	1474
80°	507	1230	1192
85°	374	936	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.0
10°-20°	209.7	8.6
20°-30°	320.8	13.1
30°-40°	392.1	16.0
40°-50°	417.9	17.1
50°-60°	399.6	16.4
60°-70°	338.5	13.9
70°-80°	227.5	9.3
80°-90°	64.2	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°	603.4	24.7
0°-40°	995.5	40.7
0°-60°	1813.0	74.2
0°-90°	2443.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	768	767	764	767	767	73
15°	742	742	740	746	745	209
25°	688	691	696	702	703	317
35°	611	616	625	637	640	383
45°	513	521	539	562	572	395
55°	396	411	447	482	499	353
65°	262	288	348	394	412	260
75°	124	168	235	275	284	132
85°	24	50	61	65	68	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.3	768.3	768.3	768.3	768.3
2.5°	769.5	769.5	765.9	768.3	768.3
5°	768.3	767.1	763.5	767.1	767.1
7.5°	764.7	763.5	761.0	764.7	763.5
10°	757.4	757.4	755.0	758.6	758.6
12.5°	751.3	750.1	748.9	753.8	752.6
15°	741.6	741.6	740.4	746.5	745.3
17.5°	729.5	730.7	732.0	736.8	738.0
20°	716.2	718.6	719.8	727.1	727.1
22.5°	704.1	705.3	707.7	715.0	715.0
25°	688.3	690.8	695.6	701.7	702.9
27.5°	672.6	673.8	679.8	688.3	689.5
30°	652.0	655.6	662.9	672.6	673.8
32.5°	633.8	637.4	645.9	655.6	658.0
35°	610.8	615.6	625.3	637.4	639.9
37.5°	590.2	593.8	605.9	619.3	622.9
40°	564.7	572.0	584.1	599.9	605.9
42.5°	539.3	546.5	561.1	581.7	589.0
45°	512.6	521.1	539.3	562.3	572.0
47.5°	486.0	495.6	516.2	542.9	553.8
50°	455.7	467.8	493.2	523.5	535.6
52.5°	426.6	441.1	469.0	502.9	518.7
55°	396.3	410.8	447.2	482.3	499.3
57.5°	362.3	381.7	421.7	461.7	479.9
60°	330.8	349.0	397.5	441.1	459.3
62.5°	296.9	321.1	373.2	419.3	437.5
65°	261.8	288.4	347.8	393.8	412.0
67.5°	230.3	259.3	322.4	368.4	386.6
70°	192.7	229.0	294.5	340.5	358.7
72.5°	157.5	197.5	265.4	310.2	327.2
75°	123.6	168.4	235.1	275.1	283.6
77.5°	92.1	139.4	203.6	220.6	214.5
80°	65.4	111.5	158.8	150.3	153.9
82.5°	42.4	84.8	98.2	111.5	115.1
85°	24.2	49.7	60.6	65.4	67.9
87.5°	10.9	18.2	24.2	24.2	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)