

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: P277035

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277035
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-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2030.9 lumens
Efficiency: N/A
Efficacy: 72.1 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

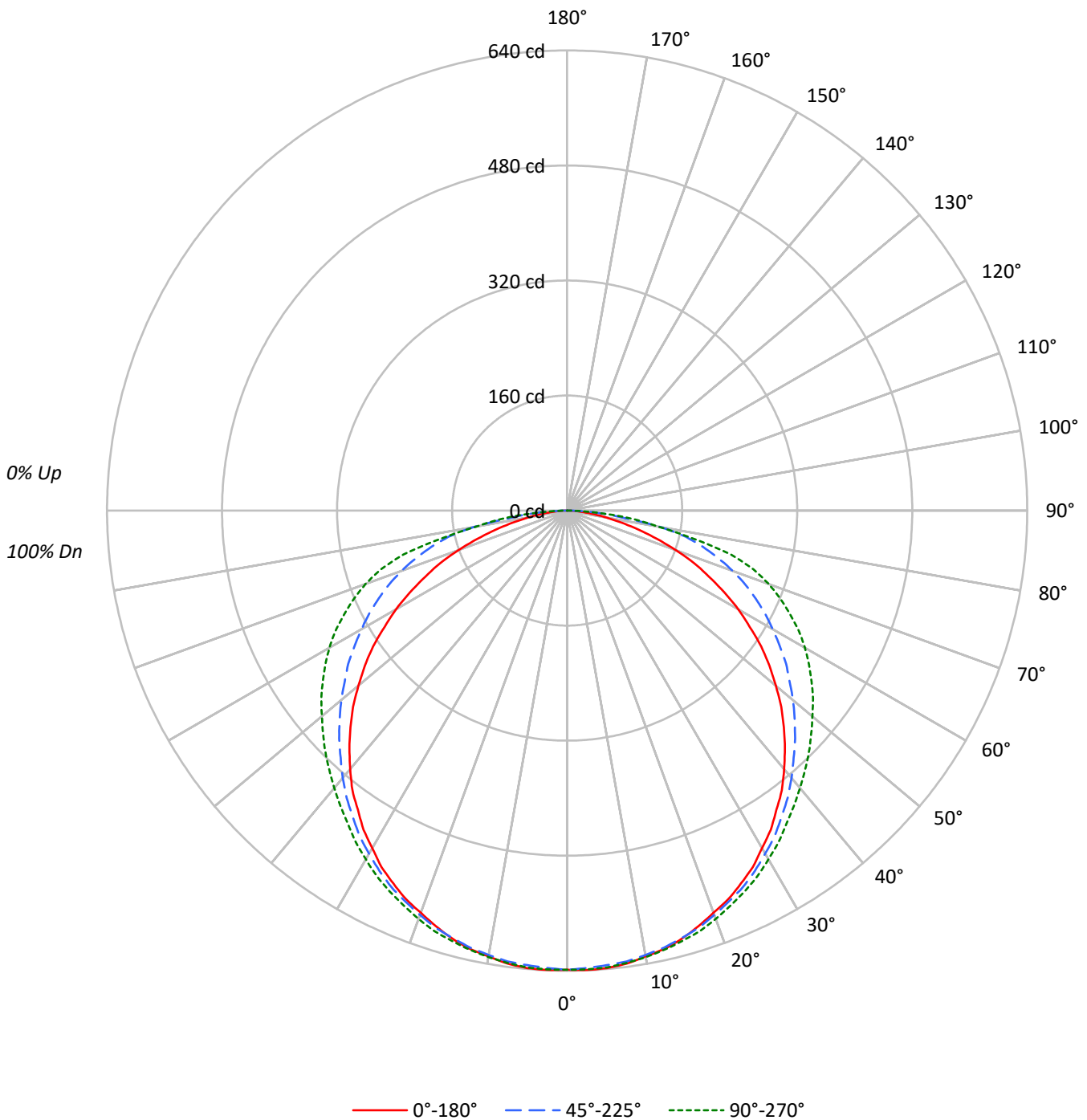
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	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°	859	859	859
5°	863	857	861
10°	860	857	862
15°	859	857	863
20°	852	857	865
25°	849	858	867
30°	842	856	870
35°	834	854	874
40°	824	853	885
45°	811	853	905
50°	793	858	932
55°	773	872	974
60°	740	889	1027
65°	693	920	1090
70°	630	963	1173
75°	534	1016	1225
80°	422	1023	991
85°	310	778	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.0
10°-20°	174.4	8.6
20°-30°	266.6	13.1
30°-40°	326.0	16.0
40°-50°	347.4	17.1
50°-60°	332.1	16.4
60°-70°	281.4	13.9
70°-80°	189.1	9.3
80°-90°	53.3	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°	501.6	24.7
0°-40°	827.5	40.7
0°-60°	1507.1	74.2
0°-90°	2030.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	639	638	635	638	638	61
15°	616	616	616	620	620	174
25°	572	574	578	583	584	264
35°	508	512	520	530	532	318
45°	426	433	448	467	476	329
55°	329	342	372	401	415	293
65°	218	240	289	327	342	216
75°	103	140	195	229	236	110
85°	20	41	50	54	56	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.7	638.7	638.7	638.7	638.7
2.5°	639.7	639.7	636.6	638.7	638.7
5°	638.7	637.7	634.6	637.7	637.7
7.5°	635.6	634.6	632.6	635.6	634.6
10°	629.6	629.6	627.6	630.6	630.6
12.5°	624.6	623.5	622.5	626.6	625.6
15°	616.5	616.5	615.5	620.5	619.5
17.5°	606.4	607.4	608.4	612.5	613.5
20°	595.3	597.4	598.4	604.4	604.4
22.5°	585.3	586.3	588.3	594.3	594.3
25°	572.2	574.2	578.2	583.3	584.3
27.5°	559.1	560.1	565.1	572.2	573.2
30°	542.0	545.0	551.0	559.1	560.1
32.5°	526.8	529.9	536.9	545.0	547.0
35°	507.7	511.7	519.8	529.9	531.9
37.5°	490.6	493.6	503.7	514.8	517.8
40°	469.4	475.5	485.5	498.6	503.7
42.5°	448.3	454.3	466.4	483.5	489.6
45°	426.1	433.2	448.3	467.4	475.5
47.5°	403.9	412.0	429.1	451.3	460.4
50°	378.8	388.8	410.0	435.2	445.2
52.5°	354.6	366.7	389.8	418.0	431.1
55°	329.4	341.5	371.7	400.9	415.0
57.5°	301.2	317.3	350.6	383.8	398.9
60°	275.0	290.1	330.4	366.7	381.8
62.5°	246.8	266.9	310.3	348.5	363.7
65°	217.6	239.7	289.1	327.4	342.5
67.5°	191.4	215.6	268.0	306.2	321.3
70°	160.2	190.4	244.8	283.1	298.2
72.5°	131.0	164.2	220.6	257.9	272.0
75°	102.7	140.0	195.4	228.7	235.7
77.5°	76.6	115.8	169.2	183.3	178.3
80°	54.4	92.7	132.0	124.9	127.9
82.5°	35.3	70.5	81.6	92.7	95.7
85°	20.1	41.3	50.4	54.4	56.4
87.5°	9.1	15.1	20.1	20.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)