

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: P277125

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277125
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: 24CZ2-40-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2018.2 lumens
Efficiency: N/A
Efficacy: 66.6 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

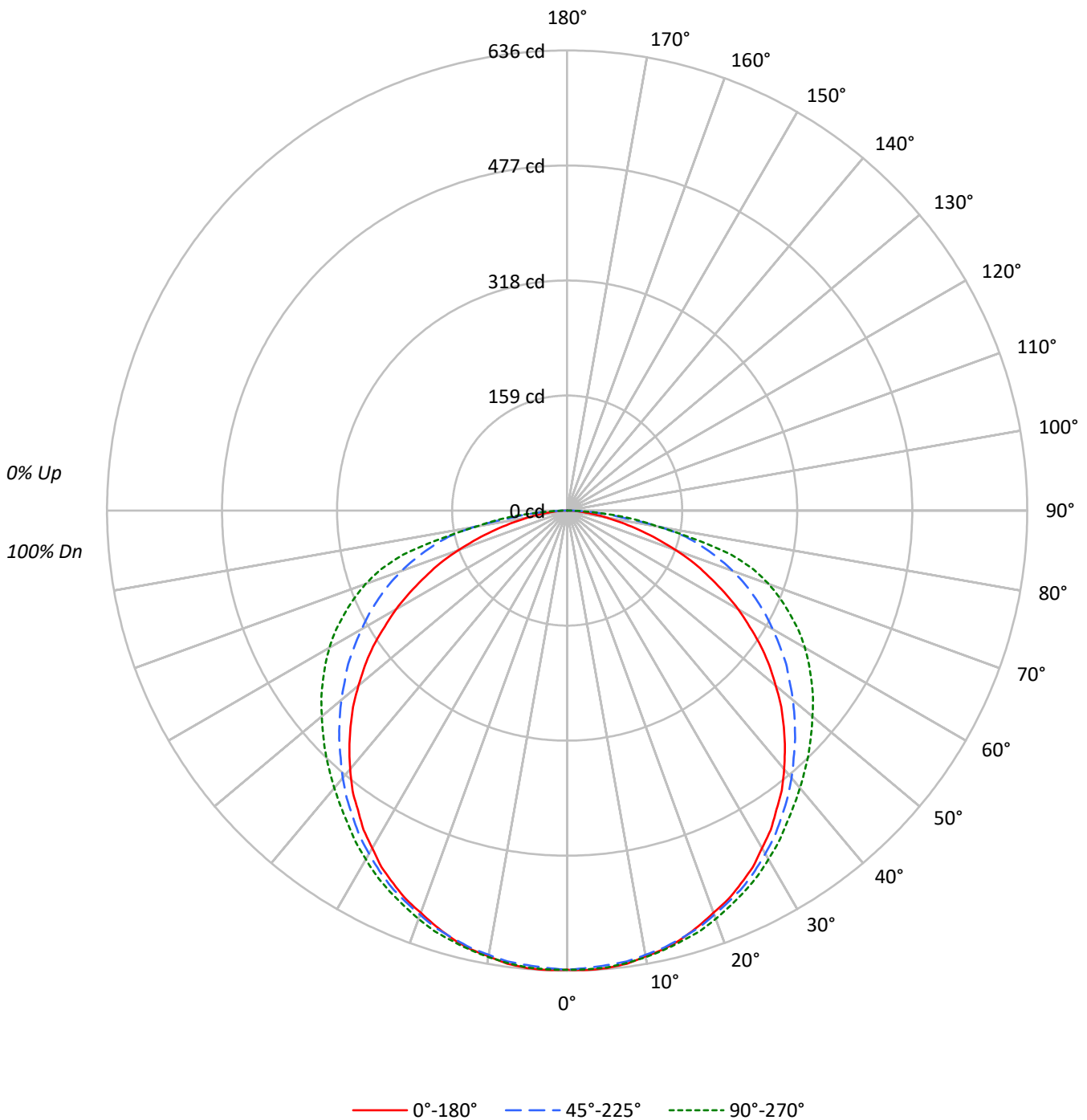
Input Watts (W): 30.318
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	854	854	854
5°	857	852	856
10°	855	852	856
15°	853	852	858
20°	847	851	860
25°	844	853	862
30°	837	851	865
35°	829	848	868
40°	819	847	879
45°	806	848	899
50°	788	853	926
55°	768	867	967
60°	735	883	1021
65°	688	915	1084
70°	626	957	1166
75°	531	1010	1218
80°	419	1016	985
85°	309	773	866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	3.0
10°-20°	173.3	8.6
20°-30°	265.0	13.1
30°-40°	323.9	16.0
40°-50°	345.2	17.1
50°-60°	330.1	16.4
60°-70°	279.6	13.9
70°-80°	187.9	9.3
80°-90°	53.0	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°	498.4	24.7
0°-40°	822.3	40.7
0°-60°	1497.6	74.2
0°-90°	2018.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2018.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	635	634	631	634	634	60
15°	613	613	612	617	616	173
25°	569	571	575	580	581	262
35°	504	508	516	526	528	316
45°	423	430	446	464	472	327
55°	327	339	369	398	412	292
65°	216	238	287	325	340	215
75°	102	139	194	227	234	109
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°	634.7	634.7	634.7	634.7	634.7
2.5°	635.7	635.7	632.7	634.7	634.7
5°	634.7	633.7	630.7	633.7	633.7
7.5°	631.7	630.7	628.6	631.7	630.7
10°	625.6	625.6	623.6	626.6	626.6
12.5°	620.6	619.6	618.6	622.6	621.6
15°	612.6	612.6	611.6	616.6	615.6
17.5°	602.6	603.6	604.6	608.6	609.6
20°	591.6	593.6	594.6	600.6	600.6
22.5°	581.6	582.6	584.6	590.6	590.6
25°	568.6	570.6	574.6	579.6	580.6
27.5°	555.6	556.6	561.6	568.6	569.6
30°	538.6	541.6	547.6	555.6	556.6
32.5°	523.5	526.5	533.6	541.6	543.6
35°	504.5	508.5	516.5	526.5	528.5
37.5°	487.5	490.5	500.5	511.5	514.5
40°	466.5	472.5	482.5	495.5	500.5
42.5°	445.5	451.5	463.5	480.5	486.5
45°	423.4	430.4	445.5	464.5	472.5
47.5°	401.4	409.4	426.4	448.5	457.5
50°	376.4	386.4	407.4	432.4	442.5
52.5°	352.4	364.4	387.4	415.4	428.4
55°	327.3	339.4	369.4	398.4	412.4
57.5°	299.3	315.3	348.4	381.4	396.4
60°	273.3	288.3	328.3	364.4	379.4
62.5°	245.3	265.3	308.3	346.4	361.4
65°	216.2	238.2	287.3	325.3	340.4
67.5°	190.2	214.2	266.3	304.3	319.3
70°	159.2	189.2	243.3	281.3	296.3
72.5°	130.1	163.2	219.2	256.3	270.3
75°	102.1	139.1	194.2	227.2	234.2
77.5°	76.1	115.1	168.2	182.2	177.2
80°	54.1	92.1	131.1	124.1	127.1
82.5°	35.0	70.1	81.1	92.1	95.1
85°	20.0	41.0	50.1	54.1	56.1
87.5°	9.0	15.0	20.0	20.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)