

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: P276972

Luminaire Tested: **24CZ2-30-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276972
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: 24CZ2-30-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1770.7 lumens
Efficiency: N/A
Efficacy: 81.4 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

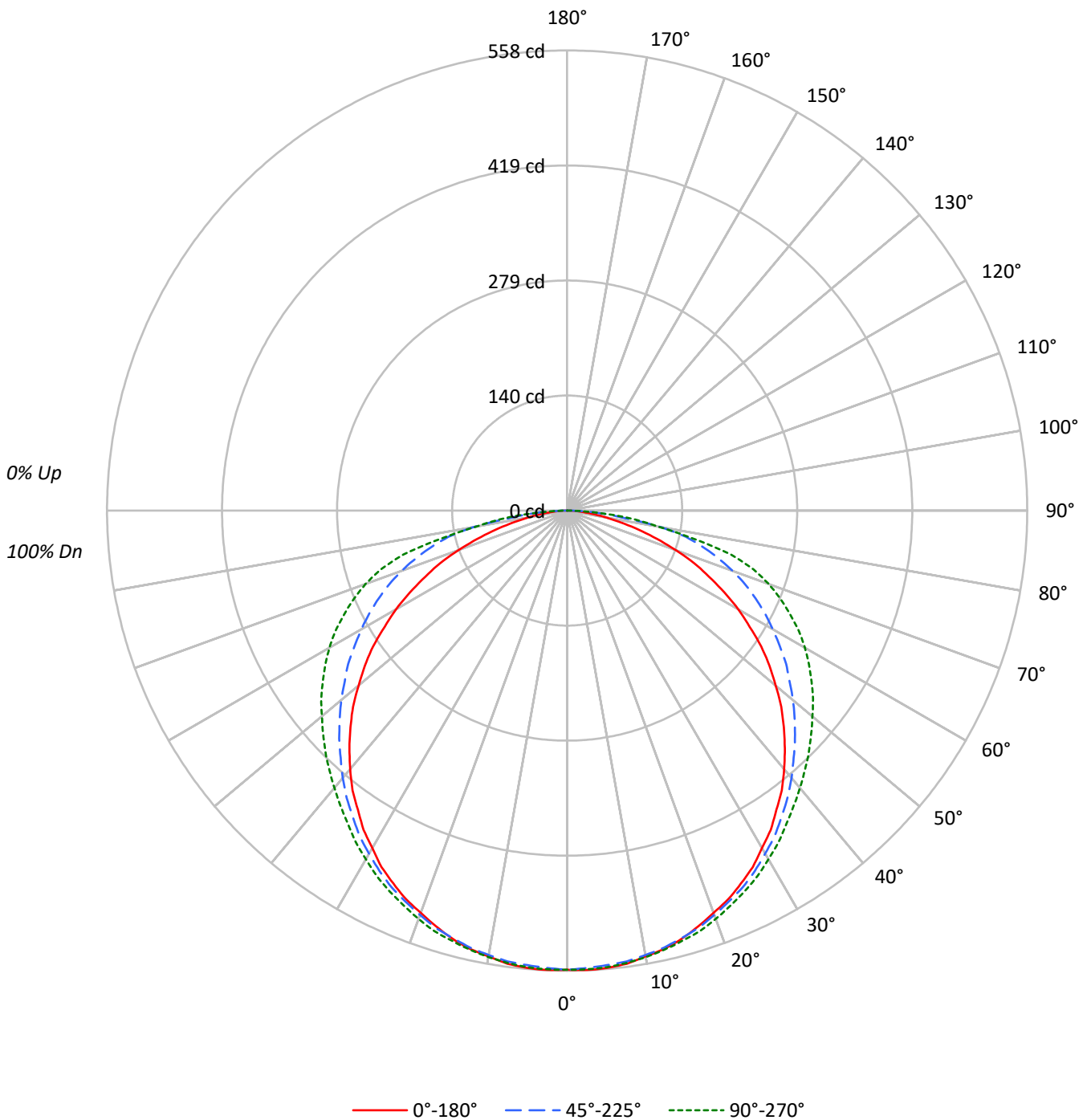
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	749	749	749
5°	752	747	751
10°	750	748	751
15°	749	747	752
20°	743	747	755
25°	741	748	756
30°	734	746	759
35°	727	744	762
40°	719	743	771
45°	707	744	789
50°	691	748	813
55°	674	760	849
60°	645	775	896
65°	604	803	951
70°	549	840	1023
75°	466	886	1068
80°	367	892	864
85°	272	678	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	3.0
10°-20°	152.0	8.6
20°-30°	232.5	13.1
30°-40°	284.2	16.0
40°-50°	302.9	17.1
50°-60°	289.6	16.4
60°-70°	245.3	13.9
70°-80°	164.9	9.3
80°-90°	46.5	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°	437.3	24.7
0°-40°	721.5	40.7
0°-60°	1314.0	74.2
0°-90°	1770.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	557	556	553	556	556	53
15°	538	538	537	541	540	152
25°	499	501	504	508	509	230
35°	443	446	453	462	464	277
45°	372	378	391	408	414	287
55°	287	298	324	350	362	256
65°	190	209	252	285	299	188
75°	90	122	170	199	206	96
85°	18	36	44	47	49	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.8	556.8	556.8	556.8	556.8
2.5°	557.7	557.7	555.1	556.8	556.8
5°	556.8	555.9	553.3	555.9	555.9
7.5°	554.2	553.3	551.6	554.2	553.3
10°	548.9	548.9	547.2	549.8	549.8
12.5°	544.5	543.7	542.8	546.3	545.4
15°	537.5	537.5	536.6	541.0	540.1
17.5°	528.7	529.6	530.5	534.0	534.9
20°	519.1	520.8	521.7	527.0	527.0
22.5°	510.3	511.2	512.9	518.2	518.2
25°	498.9	500.6	504.1	508.5	509.4
27.5°	487.4	488.3	492.7	498.9	499.7
30°	472.5	475.1	480.4	487.4	488.3
32.5°	459.3	462.0	468.1	475.1	476.9
35°	442.6	446.2	453.2	462.0	463.7
37.5°	427.7	430.4	439.1	448.8	451.4
40°	409.3	414.5	423.3	434.7	439.1
42.5°	390.8	396.1	406.6	421.6	426.8
45°	371.5	377.7	390.8	407.5	414.5
47.5°	352.2	359.2	374.1	393.5	401.4
50°	330.2	339.0	357.5	379.4	388.2
52.5°	309.2	319.7	339.9	364.5	375.9
55°	287.2	297.7	324.1	349.6	361.8
57.5°	262.6	276.7	305.6	334.6	347.8
60°	239.8	252.9	288.1	319.7	332.9
62.5°	215.2	232.7	270.5	303.9	317.1
65°	189.7	209.0	252.1	285.4	298.6
67.5°	166.9	188.0	233.6	267.0	280.2
70°	139.6	166.0	213.4	246.8	260.0
72.5°	114.2	143.2	192.3	224.8	237.1
75°	89.6	122.1	170.4	199.4	205.5
77.5°	66.7	101.0	147.5	159.8	155.5
80°	47.4	80.8	115.1	108.9	111.5
82.5°	30.7	61.5	71.1	80.8	83.4
85°	17.6	36.0	43.9	47.4	49.2
87.5°	7.9	13.2	17.6	17.6	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)