

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: P276889

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276889
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: 24CZ2-30HE-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2036.6 lumens
Efficiency: N/A
Efficacy: 100.9 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

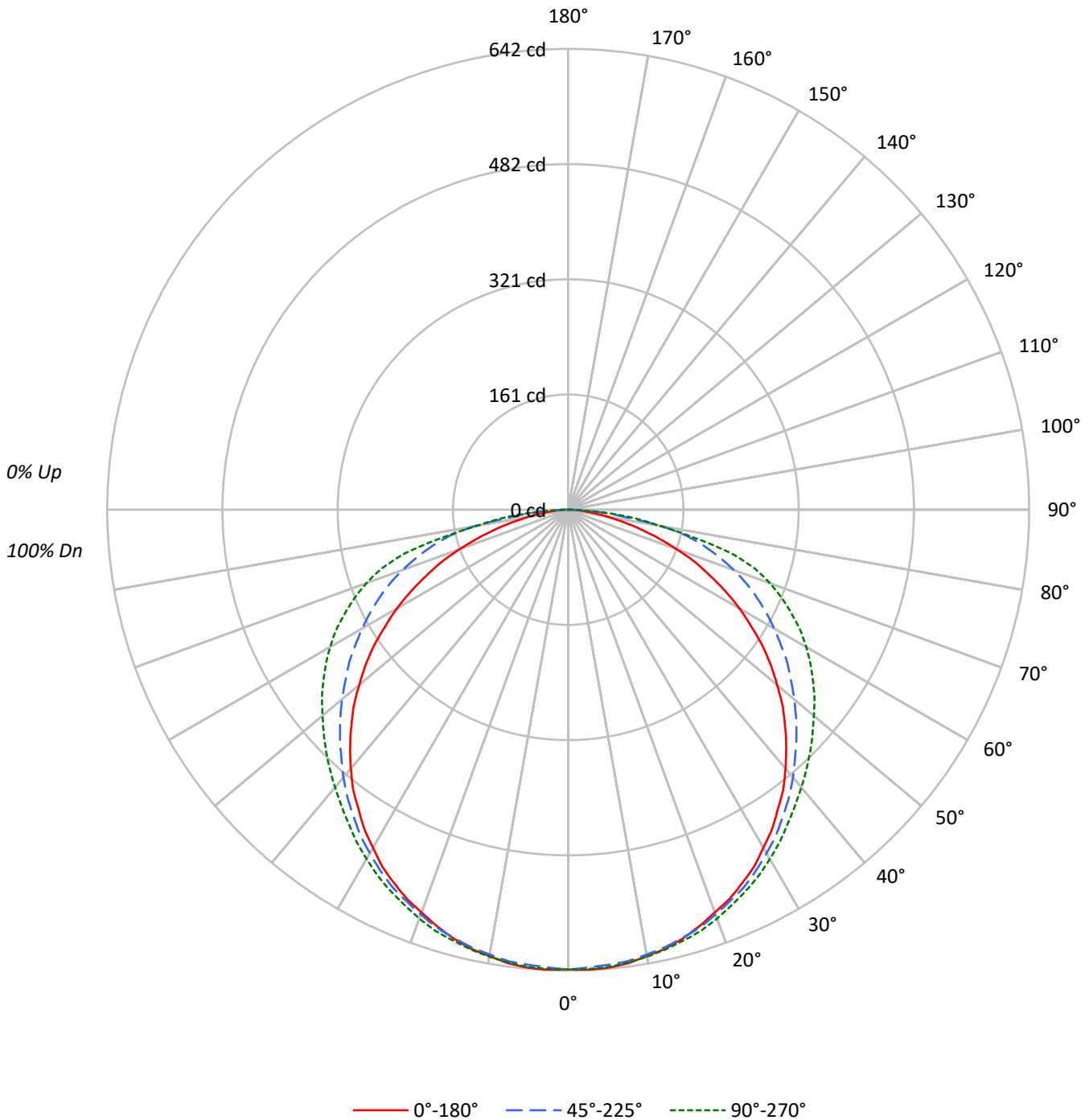
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	862	862	862
5°	865	860	864
10°	863	860	864
15°	861	860	865
20°	855	859	868
25°	852	861	870
30°	844	859	873
35°	836	856	876
40°	827	855	887
45°	813	855	907
50°	795	861	935
55°	775	875	976
60°	742	892	1030
65°	695	923	1094
70°	632	966	1176
75°	535	1019	1229
80°	423	1025	994
85°	312	780	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	3.0
10°-20°	174.8	8.6
20°-30°	267.4	13.1
30°-40°	326.9	16.0
40°-50°	348.4	17.1
50°-60°	333.1	16.4
60°-70°	282.2	13.9
70°-80°	189.6	9.3
80°-90°	53.5	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°	503.0	24.7
0°-40°	829.8	40.7
0°-60°	1511.3	74.2
0°-90°	2036.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2036.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	640	639	636	639	639	61
15°	618	618	617	622	621	174
25°	574	576	580	585	586	264
35°	509	513	521	531	533	319
45°	427	434	450	469	477	330
55°	330	342	373	402	416	294
65°	218	240	290	328	344	217
75°	103	140	196	229	236	110
85°	20	41	50	55	57	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	640.5	640.5	640.5	640.5	640.5
2.5°	641.5	641.5	638.4	640.5	640.5
5°	640.5	639.4	636.4	639.4	639.4
7.5°	637.4	636.4	634.4	637.4	636.4
10°	631.4	631.4	629.3	632.4	632.4
12.5°	626.3	625.3	624.3	628.3	627.3
15°	618.2	618.2	617.2	622.3	621.3
17.5°	608.1	609.1	610.2	614.2	615.2
20°	597.0	599.0	600.1	606.1	606.1
22.5°	586.9	587.9	589.9	596.0	596.0
25°	573.8	575.8	579.8	584.9	585.9
27.5°	560.7	561.7	566.7	573.8	574.8
30°	543.5	546.5	552.6	560.7	561.7
32.5°	528.3	531.4	538.4	546.5	548.5
35°	509.1	513.2	521.3	531.4	533.4
37.5°	492.0	495.0	505.1	516.2	519.2
40°	470.7	476.8	486.9	500.0	505.1
42.5°	449.5	455.6	467.7	484.9	491.0
45°	427.3	434.4	449.5	468.7	476.8
47.5°	405.1	413.2	430.3	452.6	461.7
50°	379.8	389.9	411.1	436.4	446.5
52.5°	355.6	367.7	390.9	419.2	432.4
55°	330.3	342.5	372.8	402.1	416.2
57.5°	302.0	318.2	351.5	384.9	400.0
60°	275.8	290.9	331.3	367.7	382.9
62.5°	247.5	267.7	311.1	349.5	364.7
65°	218.2	240.4	289.9	328.3	343.5
67.5°	191.9	216.2	268.7	307.1	322.2
70°	160.6	190.9	245.5	283.9	299.0
72.5°	131.3	164.7	221.2	258.6	272.8
75°	103.0	140.4	196.0	229.3	236.4
77.5°	76.8	116.2	169.7	183.9	178.8
80°	54.6	92.9	132.3	125.3	128.3
82.5°	35.4	70.7	81.8	92.9	96.0
85°	20.2	41.4	50.5	54.6	56.6
87.5°	9.1	15.2	20.2	20.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)