

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: P277017

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277017
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-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: 1530.8 lumens
Efficiency: N/A
Efficacy: 78.0 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

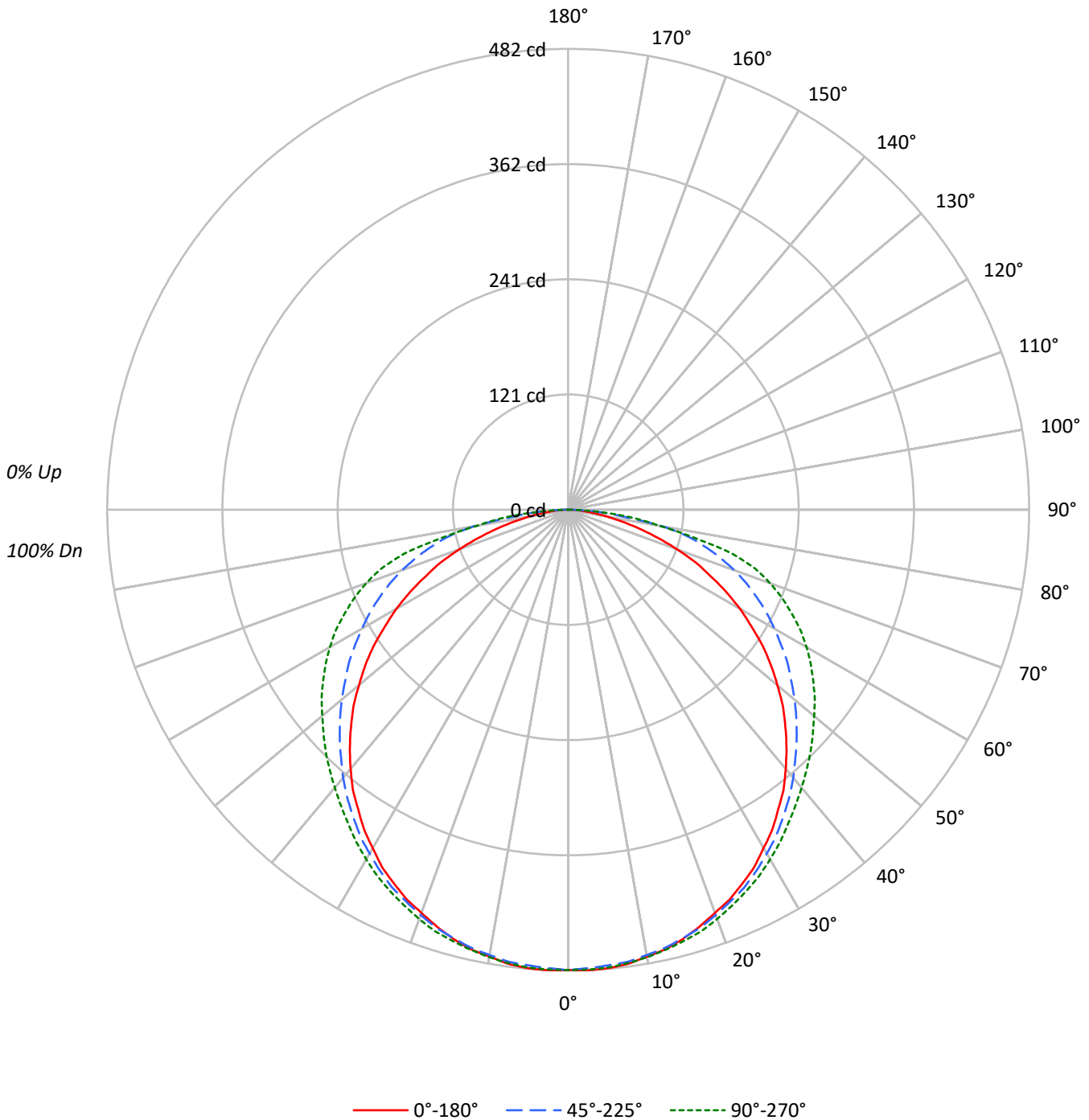
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	648	648	648
5°	650	646	649
10°	648	646	649
15°	647	646	651
20°	642	646	652
25°	640	647	654
30°	635	645	656
35°	629	644	658
40°	621	643	667
45°	611	643	682
50°	598	647	702
55°	582	657	734
60°	558	670	774
65°	522	694	822
70°	475	726	884
75°	402	766	924
80°	318	771	747
85°	235	587	656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	3.0
10°-20°	131.4	8.6
20°-30°	201.0	13.1
30°-40°	245.7	16.0
40°-50°	261.9	17.1
50°-60°	250.4	16.4
60°-70°	212.1	13.9
70°-80°	142.6	9.3
80°-90°	40.2	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°	378.1	24.7
0°-40°	623.8	40.7
0°-60°	1136.0	74.2
0°-90°	1530.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	481	481	478	481	481	46
15°	465	465	464	468	467	131
25°	431	433	436	440	440	199
35°	383	386	392	399	401	240
45°	321	326	338	352	358	248
55°	248	257	280	302	313	221
65°	164	181	218	247	258	163
75°	77	106	147	172	178	83
85°	15	31	38	41	42	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	481.4	481.4	481.4	481.4	481.4
2.5°	482.2	482.2	479.9	481.4	481.4
5°	481.4	480.6	478.4	480.6	480.6
7.5°	479.1	478.4	476.8	479.1	478.4
10°	474.6	474.6	473.0	475.3	475.3
12.5°	470.8	470.0	469.2	472.3	471.5
15°	464.7	464.7	463.9	467.7	467.0
17.5°	457.1	457.9	458.6	461.7	462.4
20°	448.7	450.3	451.0	455.6	455.6
22.5°	441.2	441.9	443.4	448.0	448.0
25°	431.3	432.8	435.8	439.6	440.4
27.5°	421.4	422.2	426.0	431.3	432.0
30°	408.5	410.8	415.3	421.4	422.2
32.5°	397.1	399.4	404.7	410.8	412.3
35°	382.7	385.7	391.8	399.4	400.9
37.5°	369.8	372.1	379.6	388.0	390.3
40°	353.8	358.4	366.0	375.9	379.6
42.5°	337.9	342.4	351.6	364.5	369.0
45°	321.2	326.5	337.9	352.3	358.4
47.5°	304.5	310.6	323.5	340.2	347.0
50°	285.5	293.1	309.0	328.0	335.6
52.5°	267.3	276.4	293.8	315.1	325.0
55°	248.3	257.4	280.2	302.2	312.8
57.5°	227.0	239.2	264.2	289.3	300.7
60°	207.3	218.7	249.0	276.4	287.8
62.5°	186.0	201.2	233.9	262.7	274.1
65°	164.0	180.7	217.9	246.8	258.2
67.5°	144.3	162.5	202.0	230.8	242.2
70°	120.7	143.5	184.5	213.4	224.8
72.5°	98.7	123.8	166.3	194.4	205.0
75°	77.4	105.5	147.3	172.4	177.7
77.5°	57.7	87.3	127.6	138.2	134.4
80°	41.0	69.9	99.5	94.2	96.4
82.5°	26.6	53.2	61.5	69.9	72.1
85°	15.2	31.1	38.0	41.0	42.5
87.5°	6.8	11.4	15.2	15.2	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)