

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: P277167

Luminaire Tested: **22CZ2-34HE-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3026.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

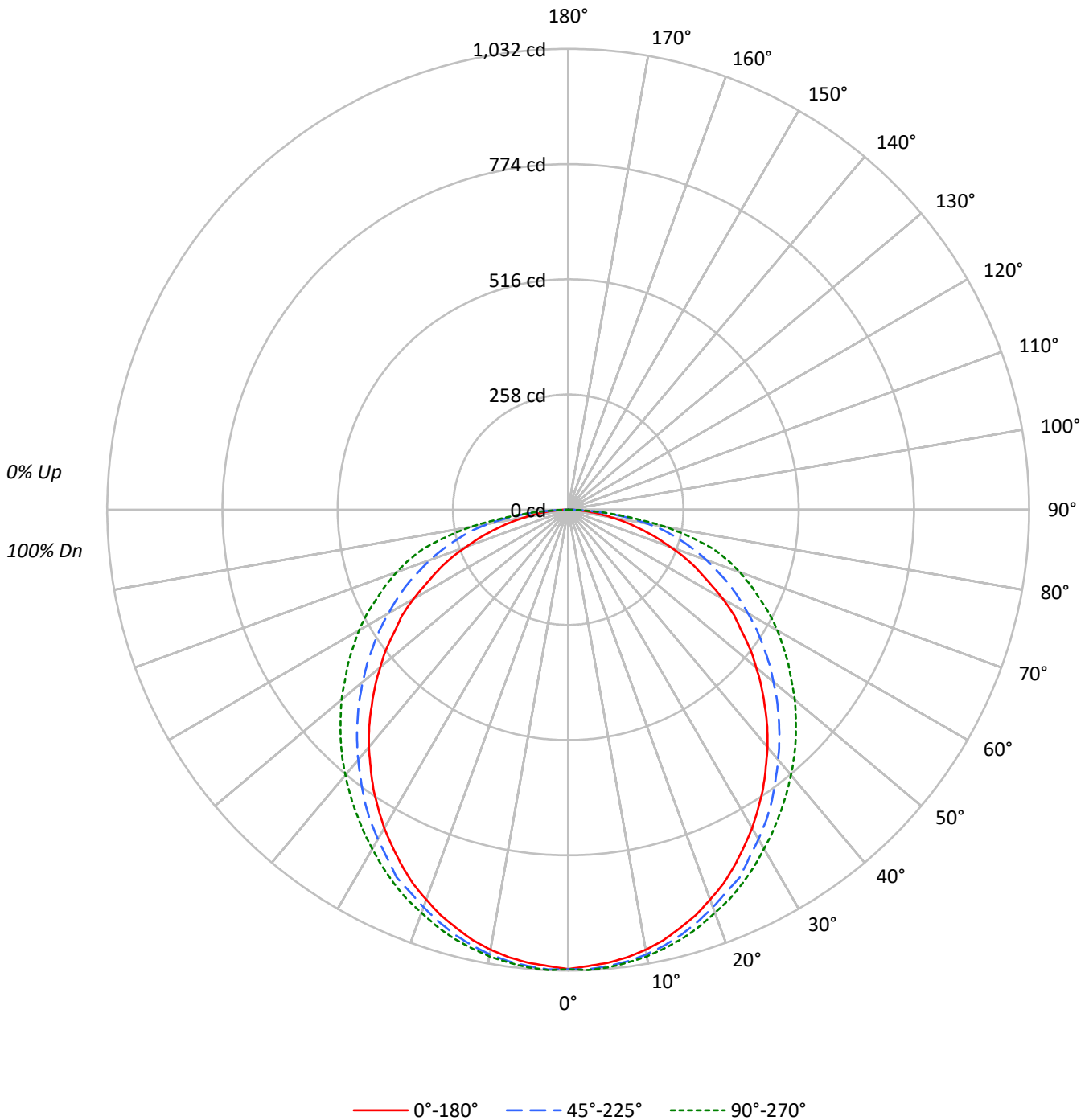
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2769	2769	2769
5°	2751	2771	2779
10°	2734	2763	2775
15°	2700	2742	2767
20°	2661	2712	2750
25°	2613	2697	2741
30°	2559	2646	2725
35°	2500	2612	2720
40°	2438	2568	2725
45°	2369	2539	2743
50°	2300	2512	2774
55°	2221	2501	2822
60°	2155	2500	2909
65°	2048	2541	3015
70°	1910	2589	3210
75°	1750	2678	3467
80°	1523	2793	3415
85°	1334	2482	2714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.2
10°-20°	277.2	9.2
20°-30°	416.1	13.7
30°-40°	497.2	16.4
40°-50°	517.0	17.1
50°-60°	479.2	15.8
60°-70°	393.0	13.0
70°-80°	265.7	8.8
80°-90°	83.5	2.8
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°	790.5	26.1
0°-40°	1287.7	42.6
0°-60°	2283.8	75.5
0°-90°	3026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1018	1020	1026	1027	1029	97
15°	969	974	984	990	993	273
25°	880	887	908	919	923	405
35°	761	771	795	819	828	476
45°	622	634	667	706	721	481
55°	474	488	533	581	602	426
65°	322	340	399	451	474	318
75°	168	196	258	310	334	178
85°	43	60	80	89	88	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.9	1028.9	1028.9	1028.9	1028.9
2.5°	1022.9	1025.9	1030.4	1031.9	1031.9
5°	1018.5	1020.0	1025.9	1027.4	1028.9
7.5°	1011.0	1014.0	1020.0	1021.5	1022.9
10°	1000.6	1003.6	1011.0	1014.0	1015.5
12.5°	987.2	990.2	999.1	1003.6	1005.1
15°	969.3	973.8	984.2	990.2	993.2
17.5°	951.5	955.9	966.4	975.3	978.3
20°	929.1	939.6	947.0	958.9	960.4
22.5°	906.8	912.8	926.2	938.1	944.0
25°	880.0	887.4	908.3	918.7	923.2
27.5°	851.7	862.1	878.5	894.9	900.8
30°	823.4	830.9	851.7	871.1	877.0
32.5°	792.1	802.6	824.9	844.3	853.2
35°	760.9	771.3	795.1	818.9	827.9
37.5°	726.6	738.5	762.4	790.7	802.6
40°	693.9	702.8	731.1	765.3	775.8
42.5°	659.6	670.0	699.8	737.1	749.0
45°	622.4	634.3	667.1	705.8	720.7
47.5°	586.7	598.6	634.3	673.0	690.9
50°	549.4	564.3	600.1	644.7	662.6
52.5°	513.7	527.1	567.3	613.5	629.8
55°	473.5	488.4	533.1	580.7	601.6
57.5°	440.7	451.2	500.3	549.4	570.3
60°	400.5	413.9	464.6	516.7	540.5
62.5°	357.4	379.7	431.8	485.4	509.2
65°	321.6	339.5	399.1	451.2	473.5
67.5°	284.4	303.8	361.8	416.9	442.2
70°	242.7	268.0	329.1	384.2	408.0
72.5°	205.5	232.3	294.8	348.4	373.7
75°	168.3	196.5	257.6	309.7	333.5
77.5°	132.5	163.8	223.3	263.6	278.4
80°	98.3	128.1	180.2	208.5	220.4
82.5°	68.5	93.8	132.5	147.4	150.4
85°	43.2	59.6	80.4	89.3	87.9
87.5°	19.4	23.8	29.8	32.8	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)