

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: P277468

Luminaire Tested: **22CZ2-34HE-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3184.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

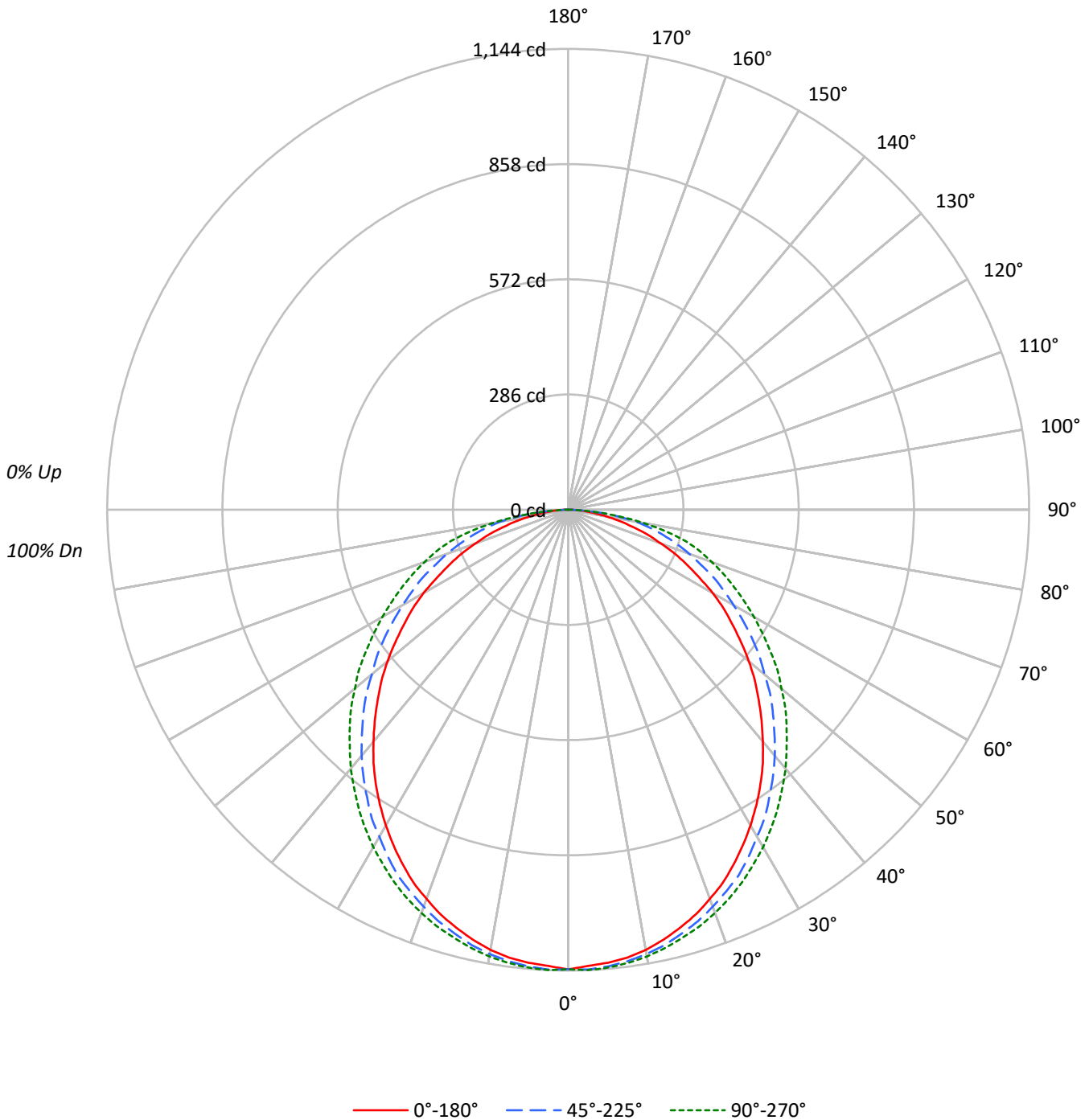
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3070	3070	3070
5°	3050	3074	3082
10°	3032	3061	3077
15°	2992	3034	3063
20°	2944	3003	3050
25°	2885	2973	3030
30°	2811	2913	3005
35°	2733	2860	2977
40°	2641	2803	2949
45°	2544	2736	2917
50°	2450	2662	2892
55°	2335	2614	2872
60°	2231	2551	2862
65°	2081	2535	2895
70°	1917	2513	2980
75°	1730	2548	3136
80°	1497	2625	2947
85°	1238	2201	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.4
10°-20°	307.0	9.6
20°-30°	459.4	14.4
30°-40°	544.1	17.1
40°-50°	554.5	17.4
50°-60°	497.0	15.6
60°-70°	389.1	12.2
70°-80°	250.9	7.9
80°-90°	74.1	2.3
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°	874.4	27.5
0°-40°	1418.5	44.5
0°-60°	2469.9	77.6
0°-90°	3184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1129	1132	1138	1139	1141	107
15°	1074	1080	1089	1098	1099	303
25°	972	980	1001	1015	1021	447
35°	832	842	871	897	906	520
45°	668	683	719	756	767	516
55°	498	514	557	596	612	446
65°	327	346	398	437	455	325
75°	166	192	245	287	302	178
85°	40	55	71	71	71	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.9	1140.9	1140.9	1140.9	1140.9
2.5°	1133.5	1136.5	1142.4	1143.9	1143.9
5°	1129.0	1132.0	1138.0	1139.4	1140.9
7.5°	1121.6	1123.1	1130.5	1133.5	1135.0
10°	1109.7	1112.7	1120.1	1124.6	1126.1
12.5°	1093.4	1097.8	1106.8	1112.7	1114.2
15°	1074.1	1080.0	1088.9	1097.8	1099.3
17.5°	1053.3	1059.2	1071.1	1081.5	1084.5
20°	1028.0	1035.5	1048.8	1060.7	1065.2
22.5°	1002.8	1008.7	1025.1	1039.9	1044.4
25°	971.6	980.5	1001.3	1014.7	1020.6
27.5°	938.9	949.3	970.1	987.9	993.9
30°	904.7	915.1	937.4	959.7	967.1
32.5°	869.1	880.9	907.7	930.0	937.4
35°	831.9	842.3	870.6	897.3	906.2
37.5°	793.3	802.2	834.9	863.1	872.0
40°	751.7	763.6	797.8	830.4	839.4
42.5°	710.1	723.5	757.6	793.3	802.2
45°	668.5	683.4	719.0	756.2	766.6
47.5°	628.4	640.3	680.4	716.1	730.9
50°	585.3	597.2	635.8	675.9	690.8
52.5°	540.8	557.1	598.7	637.3	655.1
55°	497.7	514.0	557.1	595.7	612.1
57.5°	457.6	470.9	515.5	555.6	571.9
60°	414.5	426.4	473.9	517.0	531.8
62.5°	368.4	386.3	435.3	475.4	493.2
65°	326.8	346.1	398.1	436.8	454.6
67.5°	288.2	306.0	356.5	398.1	417.4
70°	243.6	267.4	319.4	361.0	378.8
72.5°	208.0	228.8	282.3	323.9	343.2
75°	166.4	191.6	245.1	286.7	301.6
77.5°	132.2	157.5	208.0	240.7	248.1
80°	96.6	121.8	169.4	185.7	190.2
82.5°	65.4	89.1	121.8	126.3	127.8
85°	40.1	55.0	71.3	71.3	71.3
87.5°	19.3	22.3	25.3	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)