

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: P276269

Luminaire Tested: **24CZ2-30-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2454.9 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

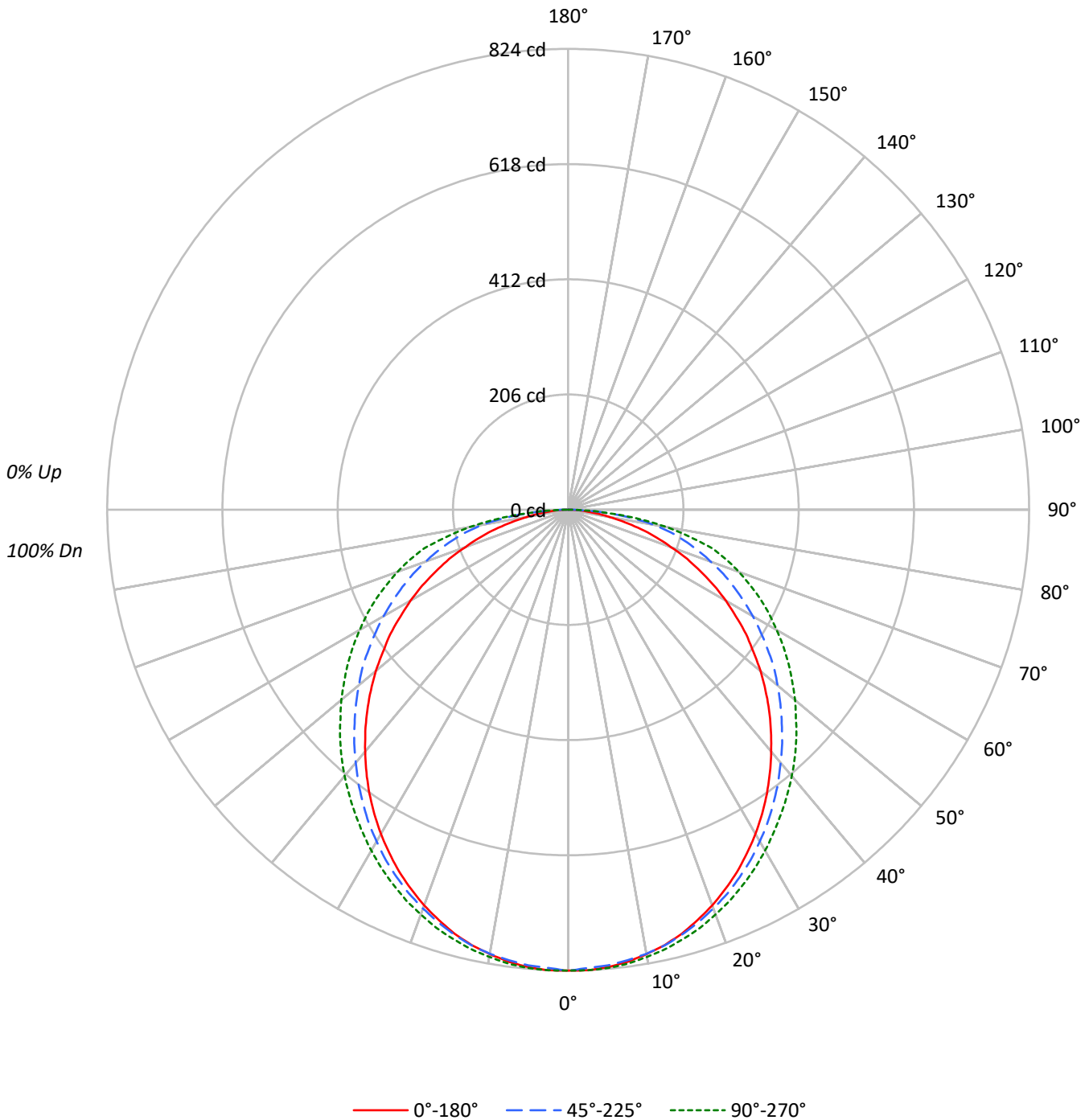
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1109	1109	1109
5°	1109	1104	1111
10°	1103	1101	1109
15°	1093	1096	1107
20°	1078	1086	1103
25°	1061	1076	1098
30°	1040	1064	1093
35°	1017	1051	1090
40°	991	1038	1092
45°	967	1027	1098
50°	940	1022	1108
55°	911	1020	1128
60°	875	1025	1157
65°	829	1041	1208
70°	770	1067	1276
75°	703	1120	1384
80°	578	1206	1384
85°	443	1113	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.2
10°-20°	222.5	9.1
20°-30°	334.9	13.6
30°-40°	401.3	16.3
40°-50°	418.2	17.0
50°-60°	389.1	15.9
60°-70°	320.5	13.1
70°-80°	218.3	8.9
80°-90°	72.1	2.9
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°	635.4	25.9
0°-40°	1036.7	42.2
0°-60°	1844.1	75.1
0°-90°	2454.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2454.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	821	821	818	822	823	78
15°	785	786	786	794	795	221
25°	714	718	725	737	740	329
35°	619	627	640	657	664	387
45°	508	519	540	567	577	392
55°	388	402	435	470	481	346
65°	260	283	327	365	379	259
75°	135	166	216	254	266	143
85°	29	56	72	77	77	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.2	824.2	824.2	824.2	824.2
2.5°	824.2	824.2	820.1	824.2	824.2
5°	820.9	820.9	817.7	821.8	822.6
7.5°	815.2	816.0	812.7	817.7	818.5
10°	807.0	807.8	806.2	811.1	811.9
12.5°	797.2	798.0	798.0	803.7	804.6
15°	784.9	785.7	786.5	793.9	794.7
17.5°	769.3	771.8	773.4	782.4	784.1
20°	752.9	755.4	758.7	768.5	770.1
22.5°	734.1	737.4	743.1	753.8	756.2
25°	714.4	717.7	725.1	737.4	739.8
27.5°	692.3	697.2	706.2	719.3	722.6
30°	669.4	674.3	684.9	698.9	703.8
32.5°	644.8	651.3	663.6	679.2	684.1
35°	619.4	626.8	639.9	657.1	663.6
37.5°	592.4	600.5	616.1	635.0	643.1
40°	564.5	574.3	590.7	612.8	621.8
42.5°	536.6	545.7	566.1	589.9	599.7
45°	508.0	518.6	539.9	567.0	576.8
47.5°	478.5	489.1	514.5	543.2	552.2
50°	449.0	459.6	488.3	518.6	529.3
52.5°	417.0	431.0	463.7	494.0	504.7
55°	388.3	401.5	435.0	469.5	480.9
57.5°	355.6	371.1	408.0	444.1	456.3
60°	325.3	341.6	381.0	417.8	430.1
62.5°	294.1	312.2	353.9	391.6	405.6
65°	260.5	282.7	326.9	365.4	379.3
67.5°	230.2	253.2	299.9	339.2	351.5
70°	195.8	223.7	271.2	310.5	324.4
72.5°	166.3	194.2	244.2	282.7	296.6
75°	135.2	165.5	215.5	254.0	266.3
77.5°	104.1	137.6	187.6	217.1	221.2
80°	74.6	109.8	155.7	172.9	178.6
82.5°	52.4	84.4	114.7	126.2	129.4
85°	28.7	55.7	72.1	77.0	77.0
87.5°	12.3	23.8	28.7	29.5	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)