

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: P275942

Luminaire Tested: **24CZ2-30-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275942
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 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: 2711.0 lumens
Efficiency: N/A
Efficacy: 124.6 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

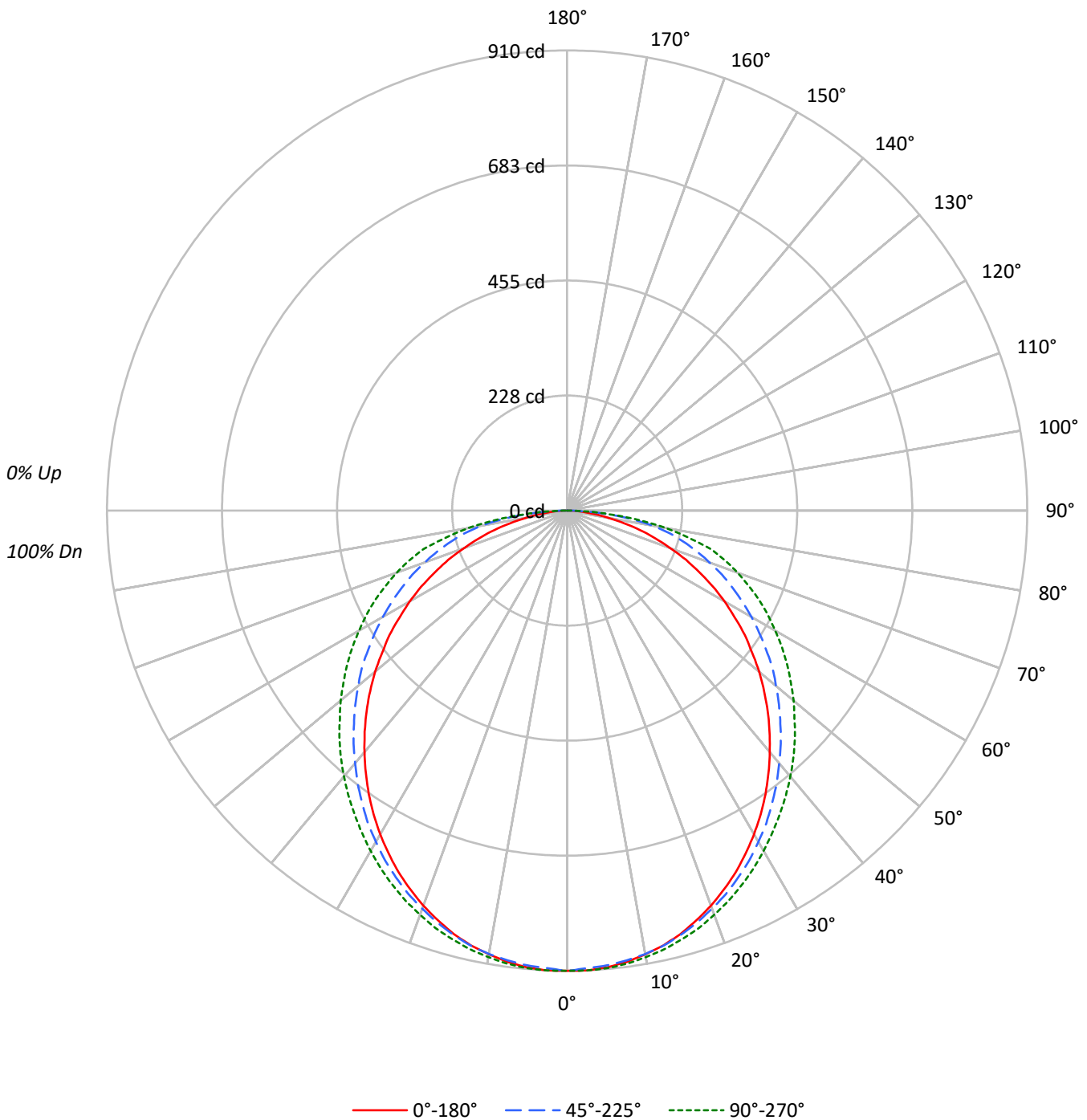
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1225	1225	1225
5°	1224	1220	1227
10°	1218	1216	1225
15°	1207	1210	1222
20°	1191	1200	1218
25°	1171	1189	1213
30°	1148	1175	1207
35°	1123	1161	1204
40°	1095	1146	1206
45°	1067	1135	1212
50°	1038	1129	1223
55°	1006	1127	1246
60°	967	1132	1278
65°	916	1149	1334
70°	851	1178	1410
75°	776	1237	1529
80°	638	1332	1528
85°	489	1229	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	3.2
10°-20°	245.8	9.1
20°-30°	369.8	13.6
30°-40°	443.2	16.3
40°-50°	461.9	17.0
50°-60°	429.7	15.9
60°-70°	353.9	13.1
70°-80°	241.0	8.9
80°-90°	79.6	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°	701.7	25.9
0°-40°	1144.9	42.2
0°-60°	2036.5	75.1
0°-90°	2711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	907	907	903	908	908	86
15°	867	868	869	877	878	244
25°	789	793	801	814	817	363
35°	684	692	707	726	733	428
45°	561	573	596	626	637	433
55°	429	443	480	518	531	382
65°	288	312	361	404	419	286
75°	149	183	238	280	294	157
85°	32	62	80	85	85	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.2	910.2	910.2	910.2	910.2
2.5°	910.2	910.2	905.7	910.2	910.2
5°	906.6	906.6	903.0	907.5	908.4
7.5°	900.3	901.2	897.5	903.0	903.9
10°	891.2	892.1	890.3	895.7	896.6
12.5°	880.4	881.3	881.3	887.6	888.5
15°	866.8	867.7	868.6	876.7	877.6
17.5°	849.6	852.3	854.1	864.1	865.9
20°	831.5	834.2	837.8	848.7	850.5
22.5°	810.7	814.3	820.6	832.4	835.1
25°	789.0	792.6	800.7	814.3	817.0
27.5°	764.5	770.0	779.9	794.4	798.0
30°	739.2	744.6	756.4	771.8	777.2
32.5°	712.1	719.3	732.9	750.1	755.5
35°	684.0	692.2	706.6	725.6	732.9
37.5°	654.2	663.2	680.4	701.2	710.3
40°	623.4	634.3	652.3	676.8	686.7
42.5°	592.6	602.6	625.2	651.4	662.3
45°	561.0	572.7	596.3	626.1	637.0
47.5°	528.4	540.2	568.2	599.9	609.8
50°	495.8	507.6	539.2	572.7	584.5
52.5°	460.5	475.9	512.1	545.6	557.3
55°	428.9	443.3	480.4	518.4	531.1
57.5°	392.7	409.9	450.6	490.4	504.0
60°	359.2	377.3	420.7	461.4	475.0
62.5°	324.8	344.7	390.9	432.5	447.9
65°	287.7	312.1	361.0	403.5	418.9
67.5°	254.2	279.6	331.1	374.6	388.2
70°	216.2	247.0	299.5	342.9	358.3
72.5°	183.7	214.4	269.6	312.1	327.5
75°	149.3	182.8	238.0	280.5	294.1
77.5°	114.9	152.0	207.2	239.8	244.3
80°	82.3	121.2	171.9	190.9	197.2
82.5°	57.9	93.2	126.7	139.3	143.0
85°	31.7	61.5	79.6	85.0	85.0
87.5°	13.6	26.2	31.7	32.6	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)