

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: P276362

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2849.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

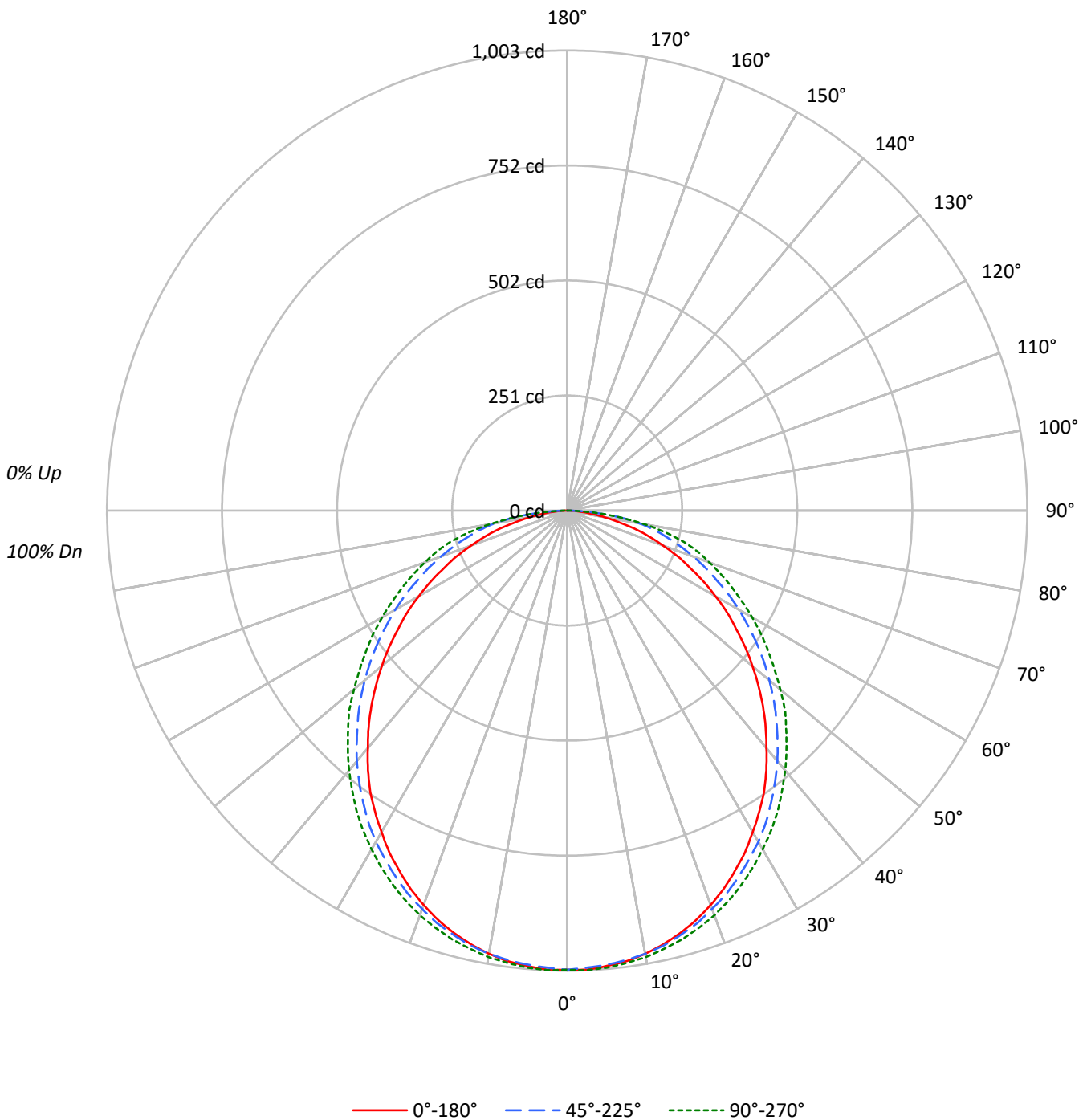
Input Watts (W): 21.718476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1347	1347	1347
5°	1346	1342	1351
10°	1340	1340	1350
15°	1327	1334	1348
20°	1310	1323	1344
25°	1286	1310	1335
30°	1257	1295	1324
35°	1229	1274	1314
40°	1187	1252	1299
45°	1149	1228	1285
50°	1104	1205	1269
55°	1055	1183	1257
60°	1006	1164	1254
65°	942	1144	1262
70°	872	1150	1296
75°	781	1171	1369
80°	631	1241	1339
85°	475	1090	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.3
10°-20°	270.7	9.5
20°-30°	407.0	14.3
30°-40°	484.8	17.0
40°-50°	496.2	17.4
50°-60°	446.7	15.7
60°-70°	350.8	12.3
70°-80°	227.7	8.0
80°-90°	70.4	2.5
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°	772.5	27.1
0°-40°	1257.3	44.1
0°-60°	2200.1	77.2
0°-90°	2849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	996	998	994	999	1000	95
15°	953	956	957	966	967	269
25°	866	873	882	897	900	399
35°	748	757	776	794	800	467
45°	604	618	645	670	675	465
55°	450	470	504	530	536	403
65°	296	318	359	389	396	295
75°	150	179	225	256	263	159
85°	31	57	71	69	69	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.9	1000.9	1000.9	1000.9	1000.9
2.5°	1001.8	1001.8	997.3	1001.8	1002.7
5°	996.3	998.2	993.6	999.1	1000.0
7.5°	990.9	990.9	988.2	993.6	994.5
10°	981.0	981.9	981.0	987.3	988.2
12.5°	968.3	970.1	971.0	977.3	978.2
15°	952.9	955.6	957.4	965.6	967.4
17.5°	935.7	938.4	943.0	952.0	953.8
20°	914.9	918.5	924.0	935.7	938.4
22.5°	892.3	895.9	904.9	915.8	920.3
25°	866.0	873.3	882.3	896.8	899.5
27.5°	839.8	846.1	857.9	873.3	876.9
30°	809.0	819.0	833.5	848.8	852.5
32.5°	779.2	789.1	806.3	822.6	827.1
35°	748.4	757.4	775.5	794.5	800.0
37.5°	713.1	724.9	744.8	763.8	769.2
40°	676.0	690.5	713.1	733.0	739.3
42.5°	640.7	656.1	678.7	700.4	707.7
45°	603.6	618.1	645.2	669.7	675.1
47.5°	565.6	581.9	610.8	635.3	644.3
50°	527.6	544.8	575.5	600.9	606.3
52.5°	489.6	507.7	540.3	567.4	570.1
55°	449.8	469.7	504.1	530.3	535.7
57.5°	413.6	430.8	467.9	495.0	501.3
60°	373.7	392.7	432.6	457.9	466.0
62.5°	335.7	355.6	397.3	422.6	429.9
65°	295.9	318.5	359.3	389.1	396.4
67.5°	261.5	283.2	326.7	355.6	362.9
70°	221.7	246.1	292.3	322.2	329.4
72.5°	187.3	212.7	258.8	287.8	298.6
75°	150.2	179.2	225.3	256.1	263.3
77.5°	114.0	147.5	194.6	218.1	218.1
80°	81.4	116.7	160.2	171.0	172.8
82.5°	53.4	87.8	118.5	117.6	117.6
85°	30.8	57.0	70.6	68.8	68.8
87.5°	11.8	23.5	25.3	25.3	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)