

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: P#

Luminaire Tested: **24CZ-LD5-30-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

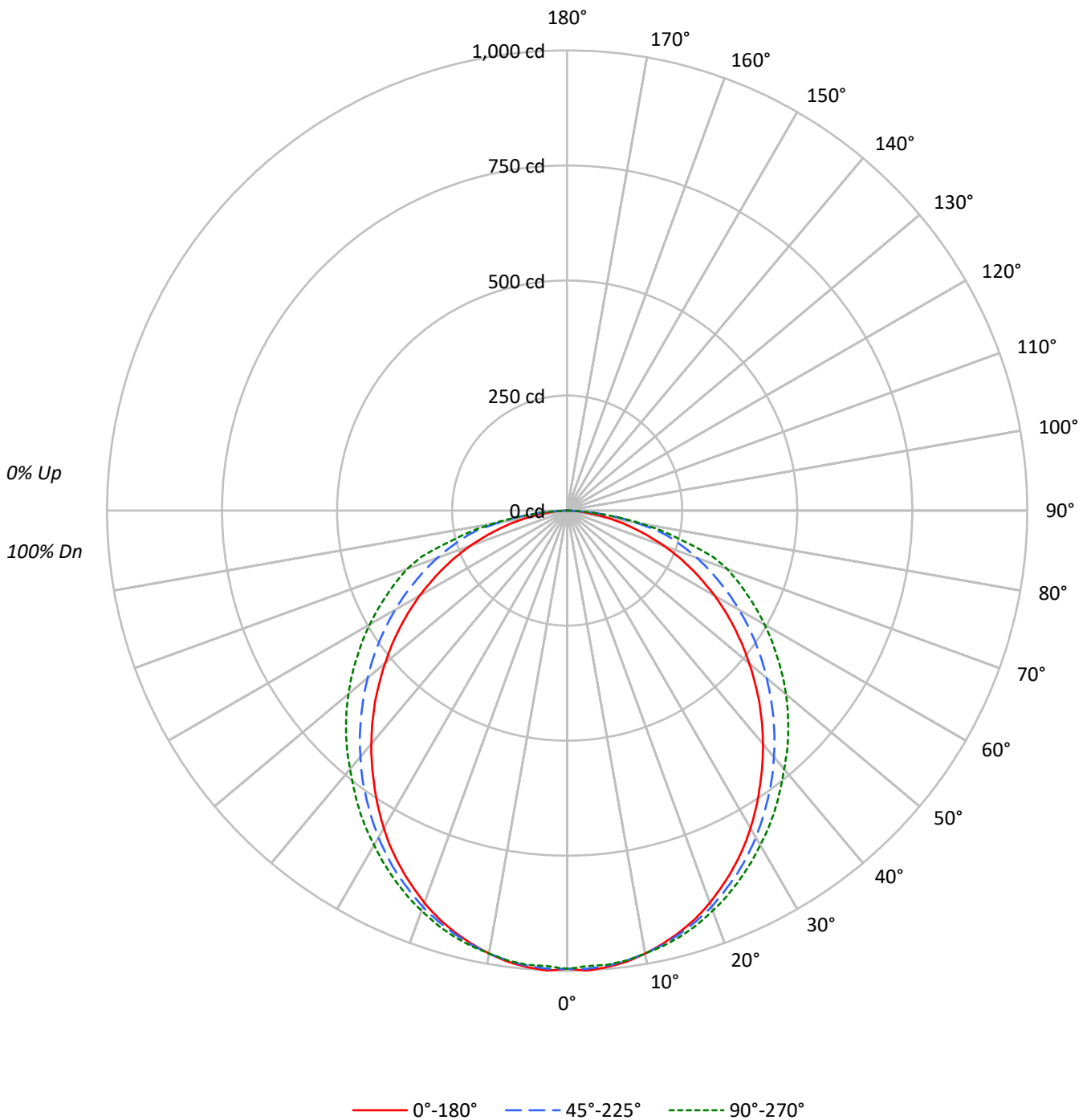
Lumens per Lamp: N/A
Luminaire Lumens: 2833.4 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 21.62
Input Voltage (V): NR
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	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1340	1340	1340
5°	1342	1335	1332
10°	1330	1323	1324
15°	1311	1307	1316
20°	1287	1288	1301
25°	1256	1264	1285
30°	1221	1236	1268
35°	1179	1206	1253
40°	1139	1175	1236
45°	1097	1144	1231
50°	1050	1114	1226
55°	1004	1089	1222
60°	955	1064	1227
65°	897	1041	1242
70°	823	1029	1277
75°	719	1025	1174
80°	588	901	995
85°	405	583	569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	3.3
10°-20°	268.0	9.5
20°-30°	400.6	14.1
30°-40°	475.0	16.8
40°-50°	488.5	17.2
50°-60°	446.9	15.8
60°-70°	360.4	12.7
70°-80°	234.0	8.3
80°-90°	65.8	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°	762.8	26.9
0°-40°	1237.8	43.7
0°-60°	2173.2	76.7
0°-90°	2833.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	996	989	993	991	991	94
15°	948	943	951	955	957	267
25°	856	856	872	879	886	394
35°	731	737	761	777	789	457
45°	591	601	633	662	680	455
55°	443	458	499	539	558	397
65°	297	314	364	412	432	294
75°	151	179	236	265	268	161
85°	34	56	61	60	58	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.7	995.7	995.7	995.7	995.7
2.5°	1000.5	992.8	996.6	994.7	990.8
5°	995.7	989.0	992.8	990.8	990.8
7.5°	989.0	982.2	986.1	986.1	986.1
10°	977.4	971.6	977.4	977.4	977.4
12.5°	963.9	959.0	965.8	966.8	968.7
15°	947.5	942.7	951.3	955.2	957.1
17.5°	929.2	925.3	935.0	939.8	942.7
20°	907.1	904.1	916.7	921.5	925.3
22.5°	882.0	882.0	894.5	900.3	907.1
25°	856.0	856.0	872.3	879.0	885.8
27.5°	828.0	829.0	847.2	856.9	863.6
30°	797.1	800.9	820.2	831.8	839.5
32.5°	764.4	769.2	791.3	805.8	815.5
35°	730.6	737.4	761.4	776.9	789.4
37.5°	696.9	705.6	731.6	749.0	761.4
40°	662.2	671.8	698.8	719.1	733.5
42.5°	626.5	637.2	667.0	690.2	707.5
45°	590.9	601.4	633.3	662.2	679.5
47.5°	553.3	565.8	599.5	633.3	650.7
50°	516.6	530.1	565.8	602.4	620.7
52.5°	480.0	495.4	533.0	571.6	589.9
55°	443.4	457.8	499.3	538.8	558.1
57.5°	406.8	422.2	465.6	507.0	527.2
60°	370.1	386.6	431.8	475.2	495.4
62.5°	332.5	349.9	398.0	443.4	463.6
65°	296.9	314.3	364.3	411.5	431.8
67.5°	260.2	279.5	331.6	379.8	401.0
70°	223.6	244.8	299.7	348.0	369.2
72.5°	187.0	211.1	267.0	315.2	330.6
75°	151.3	179.3	236.2	265.0	268.0
77.5°	118.6	147.4	201.5	213.0	218.8
80°	86.7	118.6	151.3	165.8	164.8
82.5°	57.9	90.6	109.0	110.9	109.0
85°	33.7	55.9	60.7	59.8	57.9
87.5°	14.4	22.1	19.3	16.3	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)