

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-S-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-S-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2890.1 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

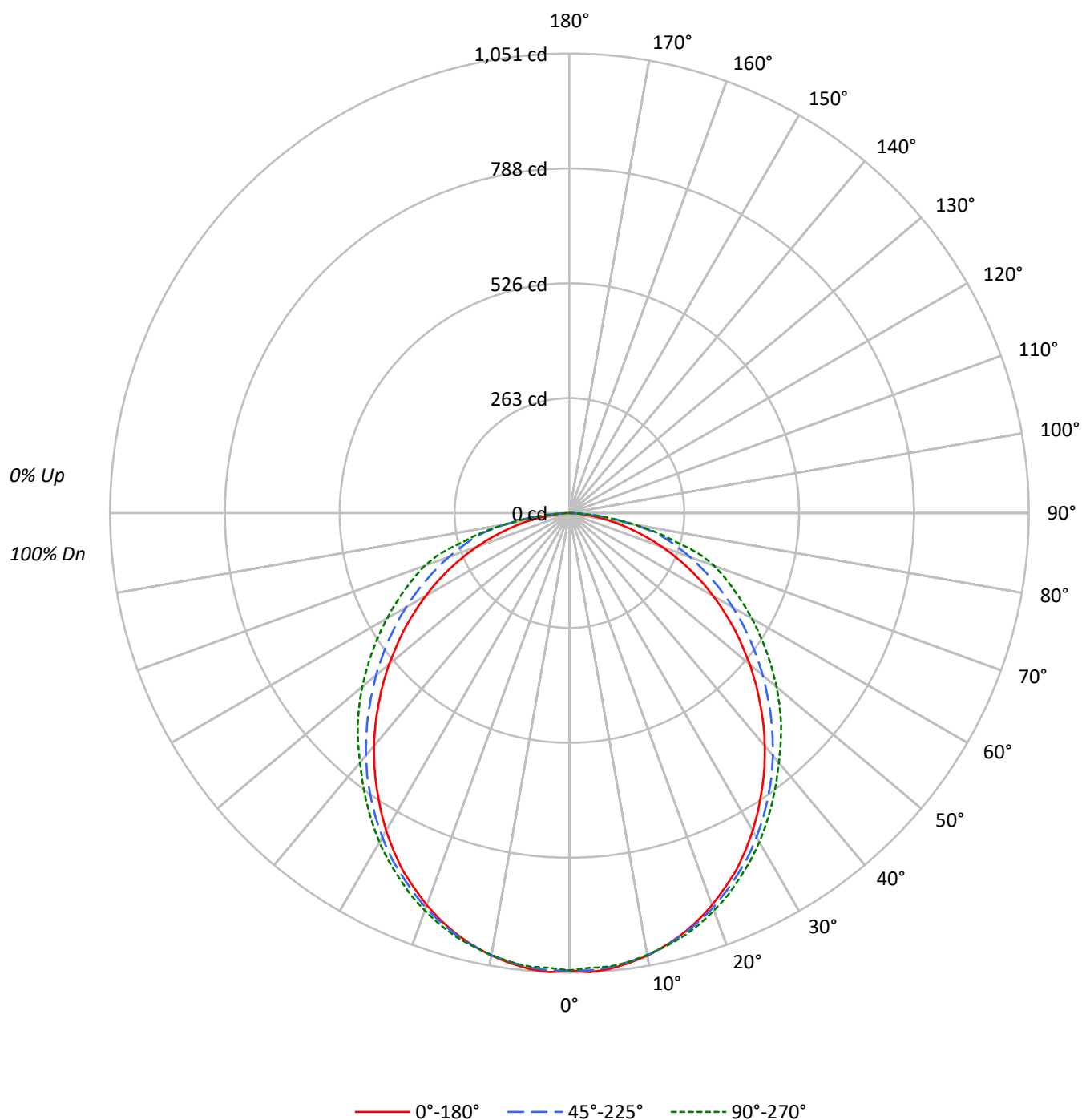
Input Watts (W): 21.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1408	1408	1408
5°	1411	1403	1401
10°	1398	1390	1390
15°	1380	1372	1379
20°	1354	1349	1360
25°	1324	1321	1336
30°	1284	1290	1313
35°	1240	1255	1283
40°	1196	1218	1256
45°	1146	1176	1241
50°	1095	1136	1222
55°	1041	1099	1204
60°	980	1064	1193
65°	912	1031	1194
70°	829	1007	1217
75°	718	997	1087
80°	574	871	905
85°	381	563	529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.4
10°-20°	281.3	9.7
20°-30°	419.3	14.5
30°-40°	493.5	17.1
40°-50°	501.5	17.4
50°-60°	450.9	15.6
60°-70°	356.2	12.3
70°-80°	226.0	7.8
80°-90°	62.4	2.2
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°	799.5	27.7
0°-40°	1293.0	44.7
0°-60°	2245.5	77.7
0°-90°	2890.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1047	1038	1043	1042	1042	99
15°	997	992	999	1002	1003	281
25°	902	901	912	917	921	415
35°	768	773	792	801	809	481
45°	617	626	651	670	685	476
55°	460	471	504	537	550	410
65°	302	317	361	400	415	299
75°	151	177	230	250	248	161
85°	32	55	59	54	54	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.2	1046.2	1046.2	1046.2	1046.2
2.5°	1051.1	1043.4	1047.2	1045.3	1041.5
5°	1047.2	1038.5	1043.4	1041.5	1041.5
7.5°	1038.5	1031.9	1035.7	1034.7	1035.7
10°	1028.0	1021.2	1027.0	1027.0	1026.1
12.5°	1013.6	1007.8	1014.5	1014.5	1015.5
15°	997.2	992.4	999.1	1002.1	1003.0
17.5°	977.1	972.2	980.9	983.7	986.7
20°	954.0	952.0	960.6	963.6	967.4
22.5°	928.0	928.0	936.6	940.5	946.3
25°	902.0	901.1	911.6	917.4	921.2
27.5°	871.2	872.2	885.7	891.5	896.2
30°	838.6	840.5	855.9	862.6	869.3
32.5°	803.9	807.8	825.1	832.8	839.5
35°	768.4	773.2	792.4	801.0	808.7
37.5°	732.7	739.5	759.7	768.4	777.0
40°	695.3	701.0	724.1	734.7	745.3
42.5°	656.8	664.5	687.6	703.0	715.4
45°	617.4	626.0	651.0	670.2	684.7
47.5°	578.0	589.5	613.5	639.4	652.0
50°	538.6	550.0	577.0	605.8	618.4
52.5°	498.1	509.7	540.5	570.3	583.7
55°	459.7	471.2	503.9	536.6	550.0
57.5°	419.2	431.8	468.4	502.0	515.5
60°	379.8	392.3	431.8	467.4	481.7
62.5°	341.4	354.8	396.2	433.7	448.1
65°	301.9	317.3	360.6	400.0	415.4
67.5°	263.5	280.8	326.0	367.4	383.7
70°	225.1	245.2	293.3	335.6	352.0
72.5°	187.5	209.7	260.6	303.0	311.6
75°	151.0	177.0	229.8	250.0	248.1
77.5°	116.4	145.3	195.2	199.0	204.8
80°	84.6	116.4	146.2	153.9	150.0
82.5°	55.8	87.5	104.8	101.0	100.0
85°	31.7	54.8	58.6	53.9	53.9
87.5°	13.5	22.1	19.2	14.4	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)