

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-LD5-30SE-UNV-L835-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-LD5-30SE-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3057.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

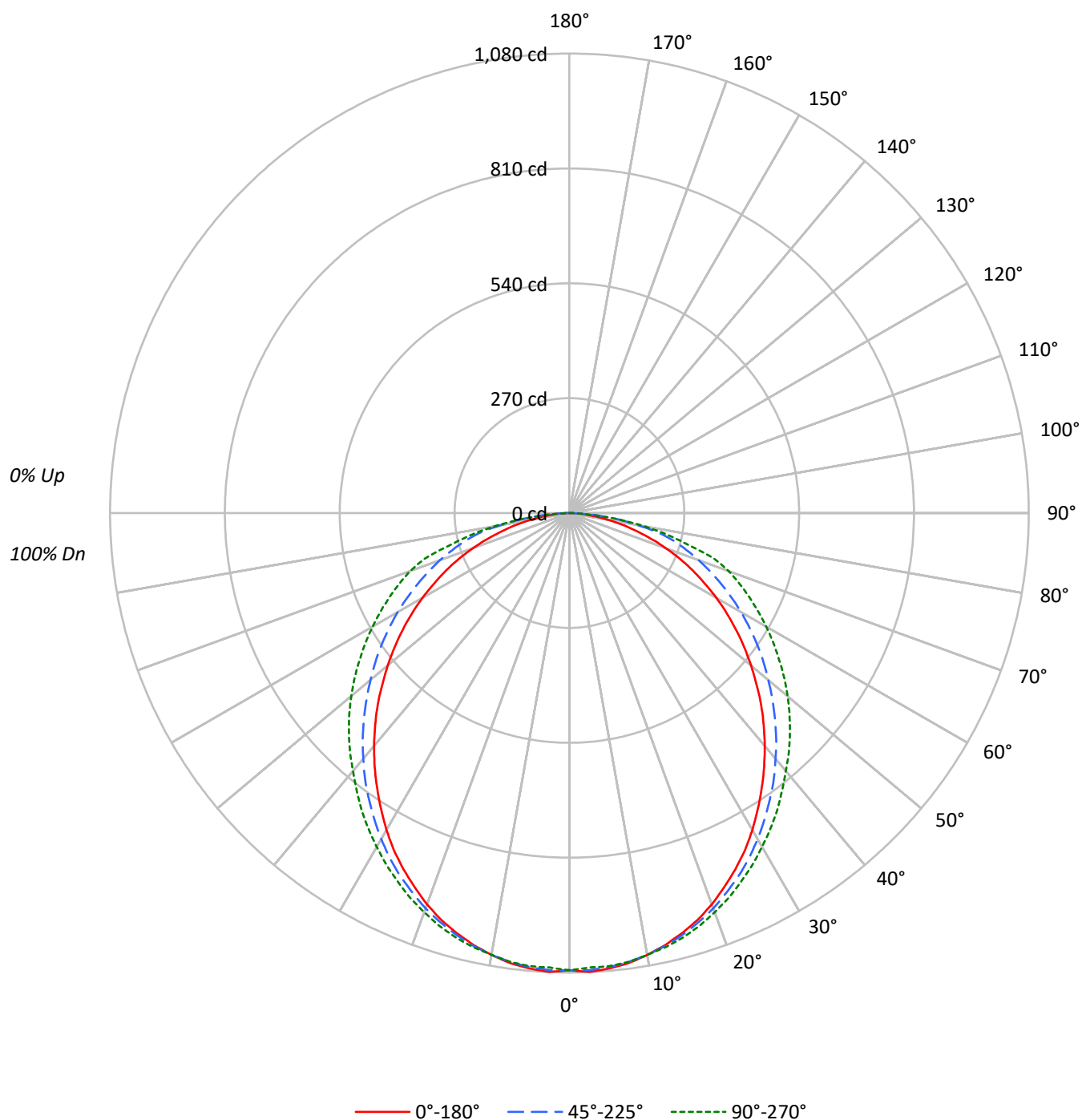
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	103	99	95	106	101	97	93		97	93	90		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	76	72		78	74	71
3	89	79	70	63	87	77	69	63		74	67	62		71	65	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	51	42	35	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	55	42	34	28		41	33	28		40	33	28		39	32	28
10	52	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1445	1445	1445
5°	1448	1440	1438
10°	1434	1427	1428
15°	1415	1410	1419
20°	1389	1389	1404
25°	1355	1363	1386
30°	1317	1334	1368
35°	1273	1301	1352
40°	1229	1268	1334
45°	1183	1235	1329
50°	1133	1202	1323
55°	1084	1175	1318
60°	1030	1148	1324
65°	968	1124	1340
70°	888	1110	1378
75°	776	1106	1267
80°	635	973	1073
85°	437	630	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.3
10°-20°	289.1	9.5
20°-30°	432.2	14.1
30°-40°	512.5	16.8
40°-50°	527.1	17.2
50°-60°	482.1	15.8
60°-70°	388.8	12.7
70°-80°	252.4	8.3
80°-90°	71.0	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°	822.9	26.9
0°-40°	1335.5	43.7
0°-60°	2344.7	76.7
0°-90°	3057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1074	1067	1071	1069	1069	102
15°	1022	1017	1026	1031	1033	288
25°	924	924	941	948	956	425
35°	788	796	822	838	852	493
45°	638	649	683	714	733	491
55°	478	494	539	581	602	428
65°	320	339	393	444	466	317
75°	163	193	255	286	289	174
85°	36	60	66	64	62	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.3	1074.3	1074.3	1074.3	1074.3
2.5°	1079.5	1071.1	1075.3	1073.2	1069.1
5°	1074.3	1067.0	1071.1	1069.1	1069.1
7.5°	1067.0	1059.7	1063.9	1063.9	1063.9
10°	1054.5	1048.3	1054.5	1054.5	1054.5
12.5°	1039.9	1034.7	1042.0	1043.1	1045.1
15°	1022.3	1017.1	1026.4	1030.6	1032.7
17.5°	1002.5	998.3	1008.7	1013.9	1017.1
20°	978.6	975.5	989.0	994.2	998.3
22.5°	951.5	951.5	965.1	971.3	978.6
25°	923.5	923.5	941.1	948.4	955.7
27.5°	893.3	894.3	914.1	924.5	931.8
30°	860.0	864.2	885.0	897.5	905.8
32.5°	824.7	829.9	853.8	869.4	879.8
35°	788.3	795.6	821.6	838.2	851.7
37.5°	751.9	761.2	789.3	808.0	821.6
40°	714.4	724.8	754.0	775.8	791.4
42.5°	676.0	687.4	719.6	744.6	763.3
45°	637.5	648.9	683.2	714.4	733.2
47.5°	596.9	610.4	646.8	683.2	702.0
50°	557.4	572.0	610.4	650.0	669.7
52.5°	517.9	534.5	575.1	616.7	636.4
55°	478.4	494.0	538.7	581.3	602.1
57.5°	438.9	455.5	502.3	547.0	568.8
60°	399.3	417.0	465.9	512.7	534.5
62.5°	358.8	377.5	429.5	478.4	500.2
65°	320.3	339.0	393.1	444.1	465.9
67.5°	280.8	301.6	357.7	409.7	432.6
70°	241.3	264.1	323.4	375.4	398.3
72.5°	201.7	227.7	288.1	340.1	356.7
75°	163.3	193.4	254.8	286.0	289.1
77.5°	127.9	159.1	217.3	229.8	236.1
80°	93.6	127.9	163.3	178.9	177.8
82.5°	62.4	97.8	117.5	119.6	117.5
85°	36.4	60.3	65.5	64.5	62.4
87.5°	15.6	23.9	20.8	17.7	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)