

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-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-LD5-30SE-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2877.7 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

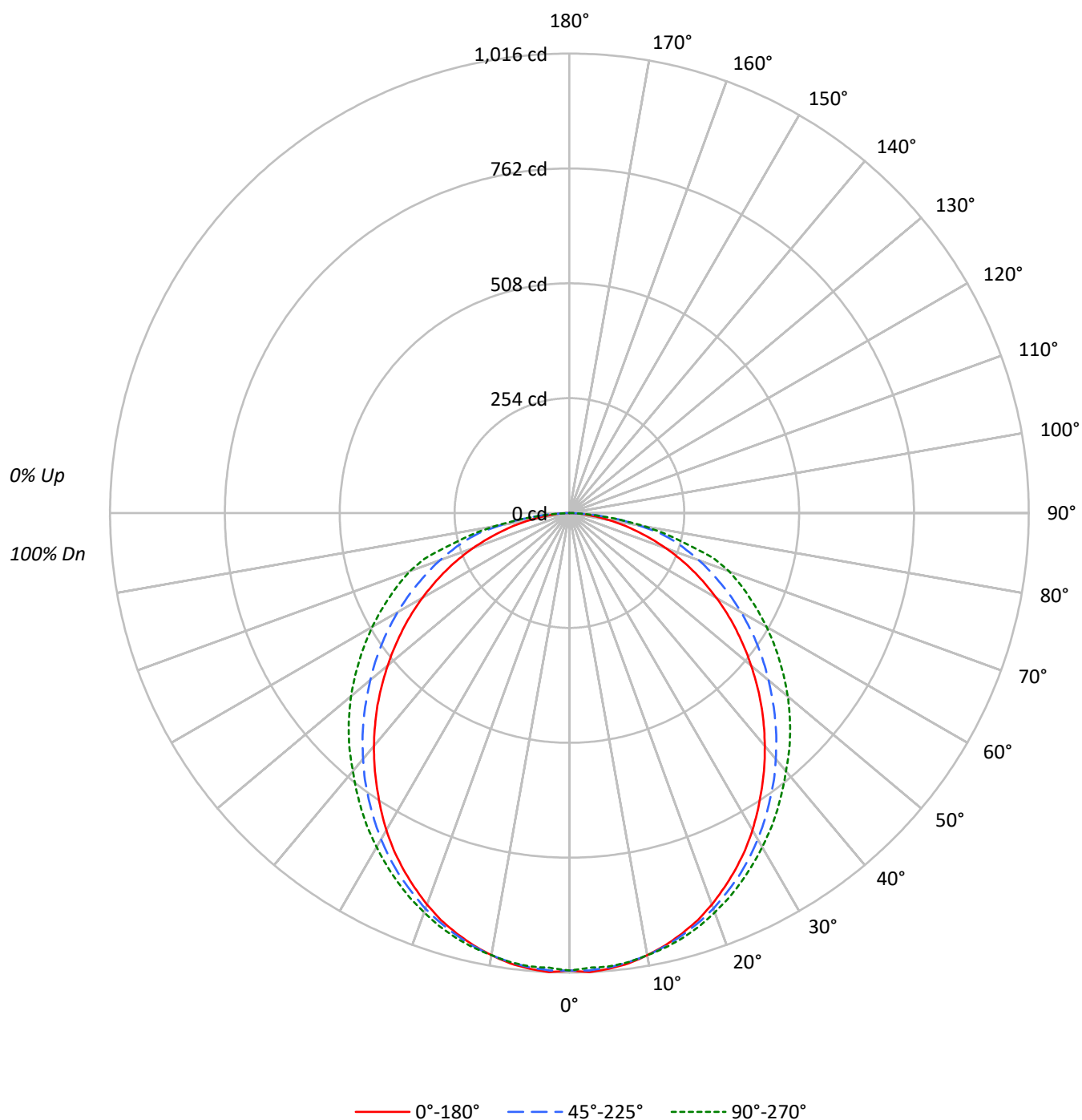
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	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°	1361	1361	1361
5°	1363	1356	1353
10°	1350	1344	1344
15°	1332	1327	1336
20°	1307	1308	1321
25°	1276	1284	1305
30°	1240	1256	1287
35°	1198	1225	1272
40°	1157	1193	1256
45°	1114	1162	1251
50°	1067	1131	1245
55°	1020	1106	1241
60°	970	1081	1246
65°	911	1058	1261
70°	836	1046	1297
75°	731	1041	1193
80°	598	916	1011
85°	412	593	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.3
10°-20°	272.2	9.5
20°-30°	406.9	14.1
30°-40°	482.5	16.8
40°-50°	496.2	17.2
50°-60°	453.8	15.8
60°-70°	366.0	12.7
70°-80°	237.6	8.3
80°-90°	66.9	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°	774.7	26.9
0°-40°	1257.1	43.7
0°-60°	2207.1	76.7
0°-90°	2877.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1011	1004	1008	1006	1006	96
15°	962	957	966	970	972	271
25°	869	869	886	893	900	400
35°	742	749	773	789	802	464
45°	600	611	643	672	690	463
55°	450	465	507	547	567	403
65°	302	319	370	418	438	298
75°	154	182	240	269	272	164
85°	34	57	62	61	59	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.3	1011.3	1011.3	1011.3	1011.3
2.5°	1016.1	1008.3	1012.2	1010.2	1006.3
5°	1011.3	1004.4	1008.3	1006.3	1006.3
7.5°	1004.4	997.5	1001.5	1001.5	1001.5
10°	992.7	986.8	992.7	992.7	992.7
12.5°	979.0	974.0	980.9	981.9	983.8
15°	962.3	957.4	966.2	970.1	972.0
17.5°	943.7	939.7	949.5	954.5	957.4
20°	921.2	918.3	931.0	935.8	939.7
22.5°	895.8	895.8	908.5	914.3	921.2
25°	869.2	869.2	886.0	892.8	899.6
27.5°	840.9	841.9	860.5	870.3	877.1
30°	809.6	813.5	833.1	844.8	852.6
32.5°	776.3	781.2	803.7	818.4	828.2
35°	742.0	748.9	773.4	789.0	801.7
37.5°	707.8	716.6	743.0	760.7	773.4
40°	672.5	682.3	709.7	730.3	745.0
42.5°	636.3	647.0	677.4	700.9	718.6
45°	600.1	610.8	643.2	672.5	690.2
47.5°	561.9	574.7	608.9	643.2	660.8
50°	524.7	538.5	574.7	611.8	630.4
52.5°	487.5	503.2	541.3	580.5	599.1
55°	450.3	465.0	507.1	547.2	566.8
57.5°	413.2	428.7	472.8	514.9	535.5
60°	375.9	392.5	438.5	482.6	503.2
62.5°	337.7	355.4	404.3	450.3	470.9
65°	301.5	319.1	370.0	418.0	438.5
67.5°	264.3	283.9	336.8	385.7	407.3
70°	227.1	248.6	304.5	353.4	375.0
72.5°	189.9	214.4	271.1	320.2	335.7
75°	153.7	182.1	239.9	269.2	272.2
77.5°	120.4	149.8	204.6	216.3	222.2
80°	88.1	120.4	153.7	168.3	167.4
82.5°	58.7	92.1	110.6	112.6	110.6
85°	34.3	56.8	61.7	60.7	58.7
87.5°	14.7	22.5	19.6	16.6	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)