

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: **22CZ-LD5-29-S-UNV-L850-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 (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-S-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3262.6 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

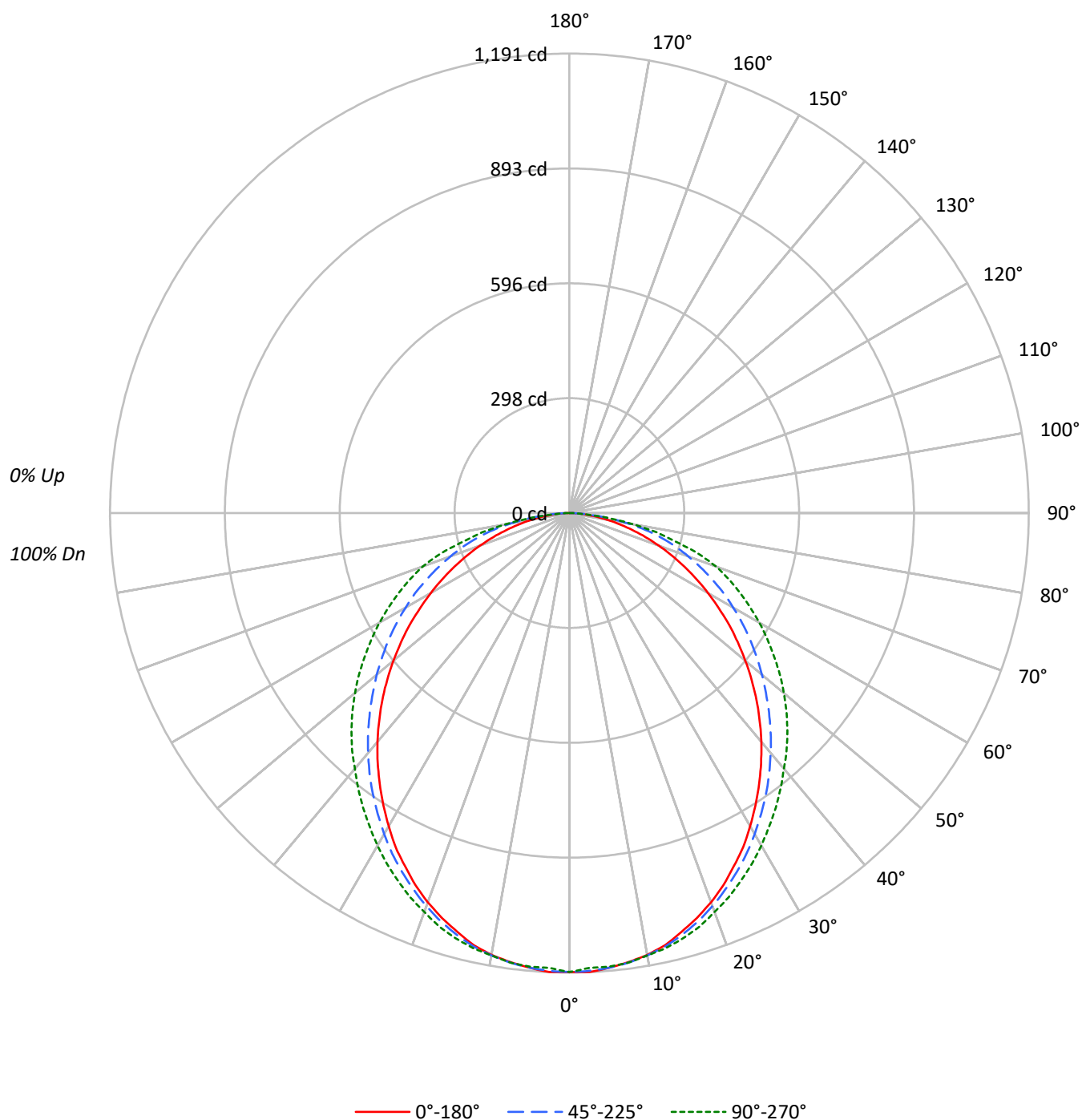
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3201	3201	3201
5°	3182	3176	3174
10°	3150	3142	3154
15°	3089	3093	3136
20°	3019	3027	3094
25°	2928	2950	3051
30°	2830	2868	3005
35°	2721	2781	2959
40°	2610	2692	2916
45°	2488	2601	2897
50°	2353	2517	2866
55°	2217	2437	2834
60°	2057	2352	2817
65°	1893	2261	2803
70°	1702	2158	2797
75°	1469	2024	2485
80°	1192	1699	2005
85°	800	990	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.4
10°-20°	319.1	9.8
20°-30°	473.9	14.5
30°-40°	557.8	17.1
40°-50°	568.7	17.4
50°-60°	512.9	15.7
60°-70°	404.0	12.4
70°-80°	249.2	7.6
80°-90°	64.7	2.0
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°	905.3	27.7
0°-40°	1463.1	44.8
0°-60°	2544.7	78.0
0°-90°	3262.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3262.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1183	1185	1183	1182	1180	112
15°	1124	1128	1131	1138	1141	317
25°	1009	1016	1026	1044	1052	465
35°	857	867	888	917	932	536
45°	686	697	732	776	799	529
55°	506	523	572	624	647	452
65°	329	353	409	461	487	326
75°	168	196	246	274	284	179
85°	41	52	58	55	52	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1191.0	1191.0	1187.8	1184.7	1180.0
5°	1183.1	1184.7	1183.1	1181.6	1180.0
7.5°	1173.7	1175.3	1175.3	1175.3	1175.3
10°	1162.8	1164.3	1164.3	1164.3	1164.3
12.5°	1147.1	1148.7	1150.2	1151.8	1154.9
15°	1123.6	1128.3	1131.4	1137.7	1140.8
17.5°	1100.1	1104.8	1109.5	1117.3	1123.6
20°	1073.4	1076.6	1084.4	1093.8	1100.1
22.5°	1043.7	1048.4	1056.2	1068.7	1078.1
25°	1009.2	1015.5	1026.4	1043.7	1051.5
27.5°	976.3	981.0	995.1	1013.9	1024.9
30°	937.1	943.4	960.6	984.1	995.1
32.5°	897.9	905.8	924.6	951.2	963.7
35°	857.2	866.6	888.5	916.7	932.4
37.5°	816.4	825.8	850.9	882.3	899.5
40°	774.1	783.5	811.7	846.2	865.0
42.5°	730.2	741.2	772.6	811.7	833.7
45°	686.4	697.3	731.8	775.7	799.2
47.5°	640.9	653.5	691.1	739.7	763.2
50°	595.5	609.6	651.9	702.0	725.5
52.5°	550.0	565.7	611.2	662.9	687.9
55°	506.2	523.4	572.0	623.7	647.2
57.5°	459.1	479.5	531.2	581.4	608.0
60°	415.3	437.2	490.5	540.6	568.8
62.5°	371.4	394.9	451.3	501.5	528.1
65°	329.1	352.6	409.0	460.7	487.4
67.5°	286.8	313.4	368.3	420.0	446.6
70°	246.0	274.2	327.5	377.7	404.3
72.5°	206.9	235.1	288.3	335.4	351.0
75°	167.7	195.9	246.0	274.2	283.6
77.5°	131.6	158.3	202.2	219.4	231.9
80°	98.7	122.2	153.6	164.5	166.1
82.5°	67.4	87.8	106.6	108.1	106.6
85°	40.7	51.7	58.0	54.8	51.7
87.5°	18.8	20.4	18.8	12.5	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)