

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-LD5-34-S-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 (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-S-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3566.9 lumens
Efficiency: N/A
Efficacy: 121.3 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

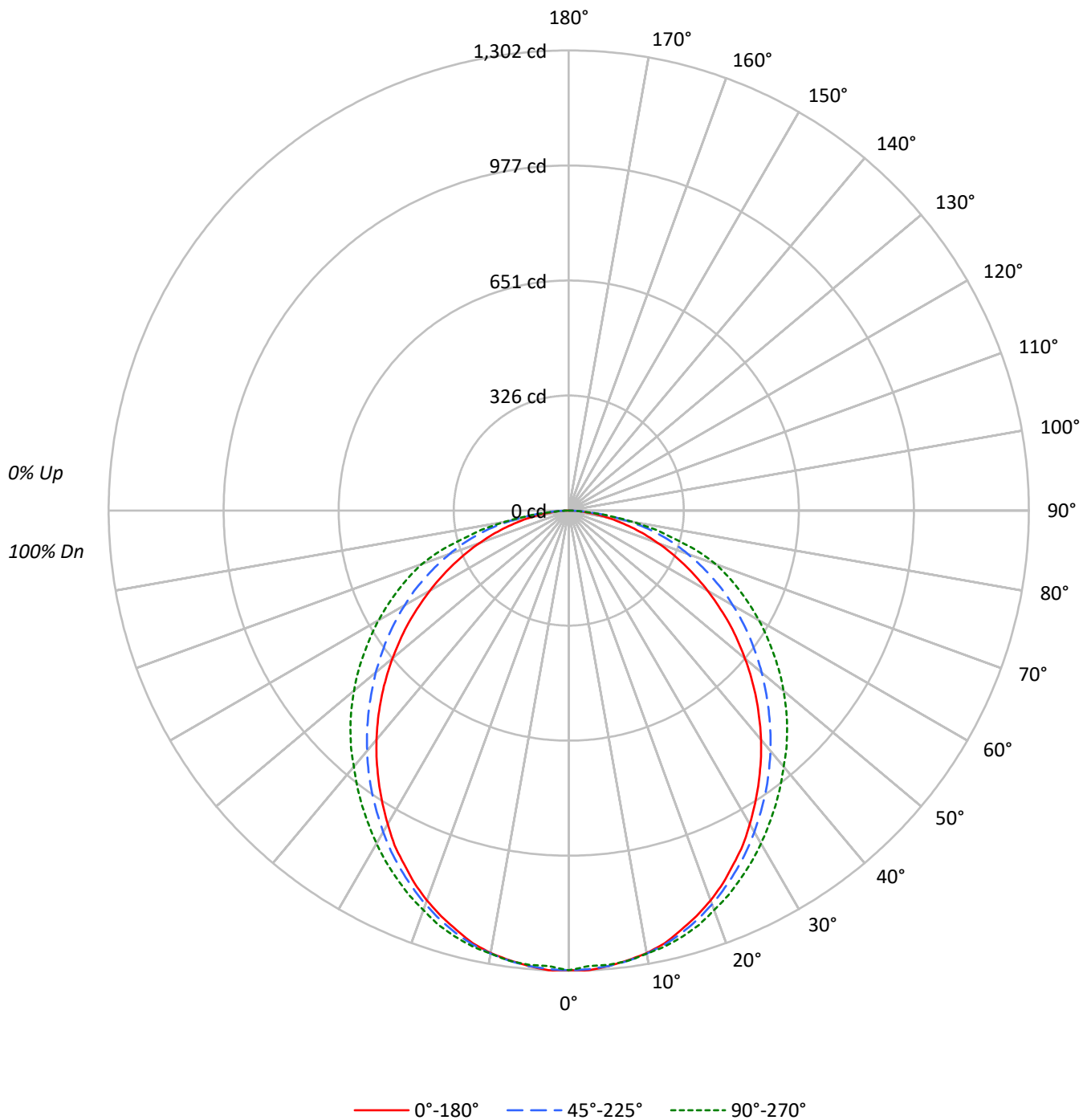
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3499	3499	3499
5°	3479	3473	3470
10°	3443	3435	3448
15°	3377	3382	3429
20°	3301	3310	3383
25°	3201	3226	3336
30°	3094	3135	3286
35°	2975	3041	3236
40°	2853	2943	3188
45°	2720	2844	3167
50°	2572	2752	3134
55°	2423	2665	3099
60°	2249	2571	3080
65°	2069	2473	3064
70°	1861	2359	3058
75°	1606	2213	2717
80°	1303	1857	2192
85°	874	1083	1110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.4
10°-20°	348.8	9.8
20°-30°	518.1	14.5
30°-40°	609.9	17.1
40°-50°	621.7	17.4
50°-60°	560.7	15.7
60°-70°	441.7	12.4
70°-80°	272.4	7.6
80°-90°	70.7	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°	989.7	27.7
0°-40°	1599.6	44.8
0°-60°	2782.1	78.0
0°-90°	3566.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3566.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1294	1295	1294	1292	1290	123
15°	1228	1234	1237	1244	1247	346
25°	1103	1110	1122	1141	1150	508
35°	937	947	971	1002	1019	586
45°	750	762	800	848	874	578
55°	553	572	625	682	708	494
65°	360	386	447	504	533	356
75°	183	214	269	300	310	196
85°	44	56	63	60	56	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.4	1300.4	1300.4	1300.4	1300.4
2.5°	1302.1	1302.1	1298.6	1295.2	1290.1
5°	1293.5	1295.2	1293.5	1291.8	1290.1
7.5°	1283.2	1284.9	1284.9	1284.9	1284.9
10°	1271.2	1272.9	1272.9	1272.9	1272.9
12.5°	1254.1	1255.8	1257.5	1259.2	1262.7
15°	1228.4	1233.5	1237.0	1243.8	1247.2
17.5°	1202.7	1207.8	1213.0	1221.6	1228.4
20°	1173.6	1177.0	1185.6	1195.9	1202.7
22.5°	1141.0	1146.2	1154.7	1168.4	1178.7
25°	1103.3	1110.2	1122.2	1141.0	1149.6
27.5°	1067.4	1072.5	1087.9	1108.5	1120.5
30°	1024.5	1031.4	1050.2	1075.9	1087.9
32.5°	981.7	990.3	1010.8	1039.9	1053.7
35°	937.2	947.4	971.4	1002.3	1019.4
37.5°	892.6	902.9	930.3	964.6	983.4
40°	846.3	856.6	887.5	925.2	945.7
42.5°	798.4	810.4	844.6	887.5	911.5
45°	750.4	762.4	800.1	848.1	873.8
47.5°	700.7	714.4	755.5	808.7	834.4
50°	651.0	666.5	712.7	767.5	793.2
52.5°	601.4	618.5	668.2	724.7	752.1
55°	553.4	572.2	625.3	681.9	707.6
57.5°	502.0	524.3	580.8	635.6	664.7
60°	454.0	478.0	536.2	591.1	621.9
62.5°	406.0	431.7	493.4	548.2	577.4
65°	359.8	385.5	447.2	503.7	532.8
67.5°	313.5	342.7	402.6	459.2	488.3
70°	269.0	299.8	358.1	412.9	442.0
72.5°	226.1	257.0	315.2	366.6	383.8
75°	183.3	214.2	269.0	299.8	310.1
77.5°	143.9	173.0	221.0	239.9	253.6
80°	107.9	133.6	167.9	179.9	181.6
82.5°	73.7	95.9	116.5	118.2	116.5
85°	44.5	56.5	63.4	60.0	56.5
87.5°	20.6	22.3	20.6	13.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)