

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-L840-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-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3638.3 lumens
Efficiency: N/A
Efficacy: 123.8 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

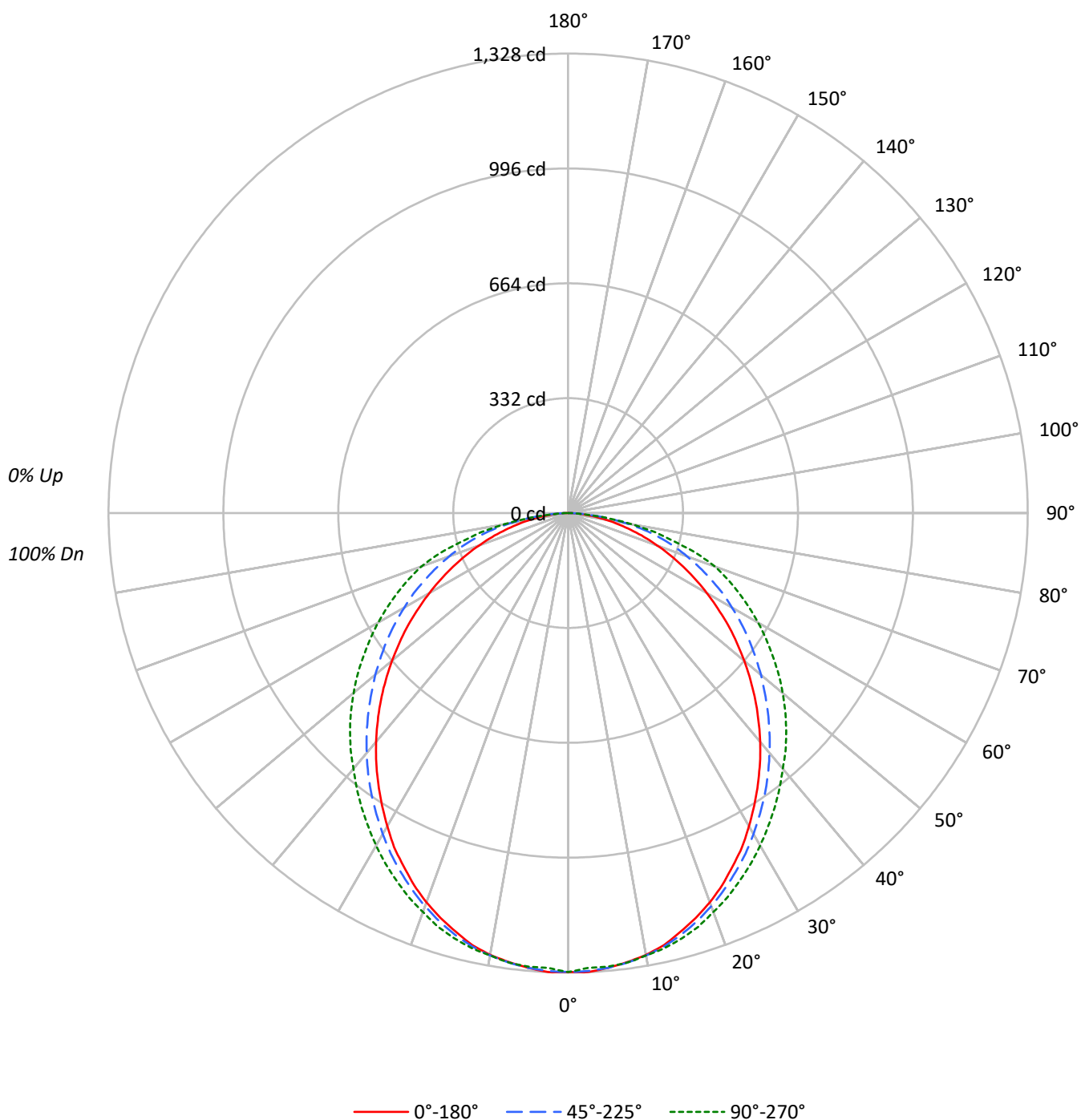
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3569	3569	3569
5°	3549	3542	3539
10°	3512	3504	3517
15°	3445	3450	3497
20°	3367	3376	3450
25°	3265	3290	3402
30°	3156	3198	3351
35°	3034	3101	3300
40°	2911	3002	3252
45°	2774	2901	3230
50°	2624	2807	3197
55°	2471	2718	3160
60°	2294	2623	3142
65°	2111	2522	3126
70°	1898	2406	3119
75°	1639	2257	2771
80°	1329	1895	2236
85°	892	1105	1134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.4
10°-20°	355.8	9.8
20°-30°	528.5	14.5
30°-40°	622.1	17.1
40°-50°	634.2	17.4
50°-60°	572.0	15.7
60°-70°	450.5	12.4
70°-80°	277.9	7.6
80°-90°	72.1	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°	1009.5	27.7
0°-40°	1631.6	44.8
0°-60°	2837.7	78.0
0°-90°	3638.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3638.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1319	1321	1319	1318	1316	125
15°	1253	1258	1262	1269	1272	353
25°	1125	1132	1145	1164	1173	519
35°	956	966	991	1022	1040	598
45°	765	778	816	865	891	590
55°	564	584	638	696	722	504
65°	367	393	456	514	544	364
75°	187	218	274	306	316	200
85°	45	58	65	61	58	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.4	1326.4	1326.4	1326.4	1326.4
2.5°	1328.1	1328.1	1324.6	1321.1	1315.9
5°	1319.4	1321.1	1319.4	1317.6	1315.9
7.5°	1308.9	1310.6	1310.6	1310.6	1310.6
10°	1296.7	1298.4	1298.4	1298.4	1298.4
12.5°	1279.2	1280.9	1282.7	1284.4	1287.9
15°	1253.0	1258.2	1261.7	1268.7	1272.2
17.5°	1226.8	1232.0	1237.2	1246.0	1253.0
20°	1197.1	1200.5	1209.3	1219.8	1226.8
22.5°	1163.8	1169.1	1177.8	1191.8	1202.3
25°	1125.4	1132.4	1144.6	1163.8	1172.6
27.5°	1088.7	1093.9	1109.7	1130.6	1142.9
30°	1045.0	1052.0	1071.2	1097.4	1109.7
32.5°	1001.3	1010.1	1031.0	1060.7	1074.7
35°	955.9	966.4	990.8	1022.3	1039.8
37.5°	910.5	920.9	948.9	983.9	1003.1
40°	863.3	873.8	905.2	943.7	964.6
42.5°	814.3	826.6	861.5	905.2	929.7
45°	765.4	777.6	816.1	865.0	891.2
47.5°	714.7	728.7	770.7	824.8	851.0
50°	664.1	679.8	727.0	782.9	809.1
52.5°	613.4	630.9	681.5	739.2	767.2
55°	564.4	583.7	637.8	695.5	721.7
57.5°	512.0	534.7	592.4	648.3	678.0
60°	463.1	487.6	547.0	602.9	634.3
62.5°	414.2	440.4	503.3	559.2	588.9
65°	367.0	393.2	456.1	513.8	543.5
67.5°	319.8	349.5	410.7	468.3	498.0
70°	274.4	305.8	365.2	421.2	450.9
72.5°	230.7	262.1	321.5	374.0	391.4
75°	187.0	218.4	274.4	305.8	316.3
77.5°	146.8	176.5	225.4	244.7	258.6
80°	110.1	136.3	171.3	183.5	185.2
82.5°	75.1	97.9	118.8	120.6	118.8
85°	45.4	57.7	64.7	61.2	57.7
87.5°	21.0	22.7	21.0	14.0	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)