

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-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 (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-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.7 lumens
Efficiency: N/A
Efficacy: 114.2 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

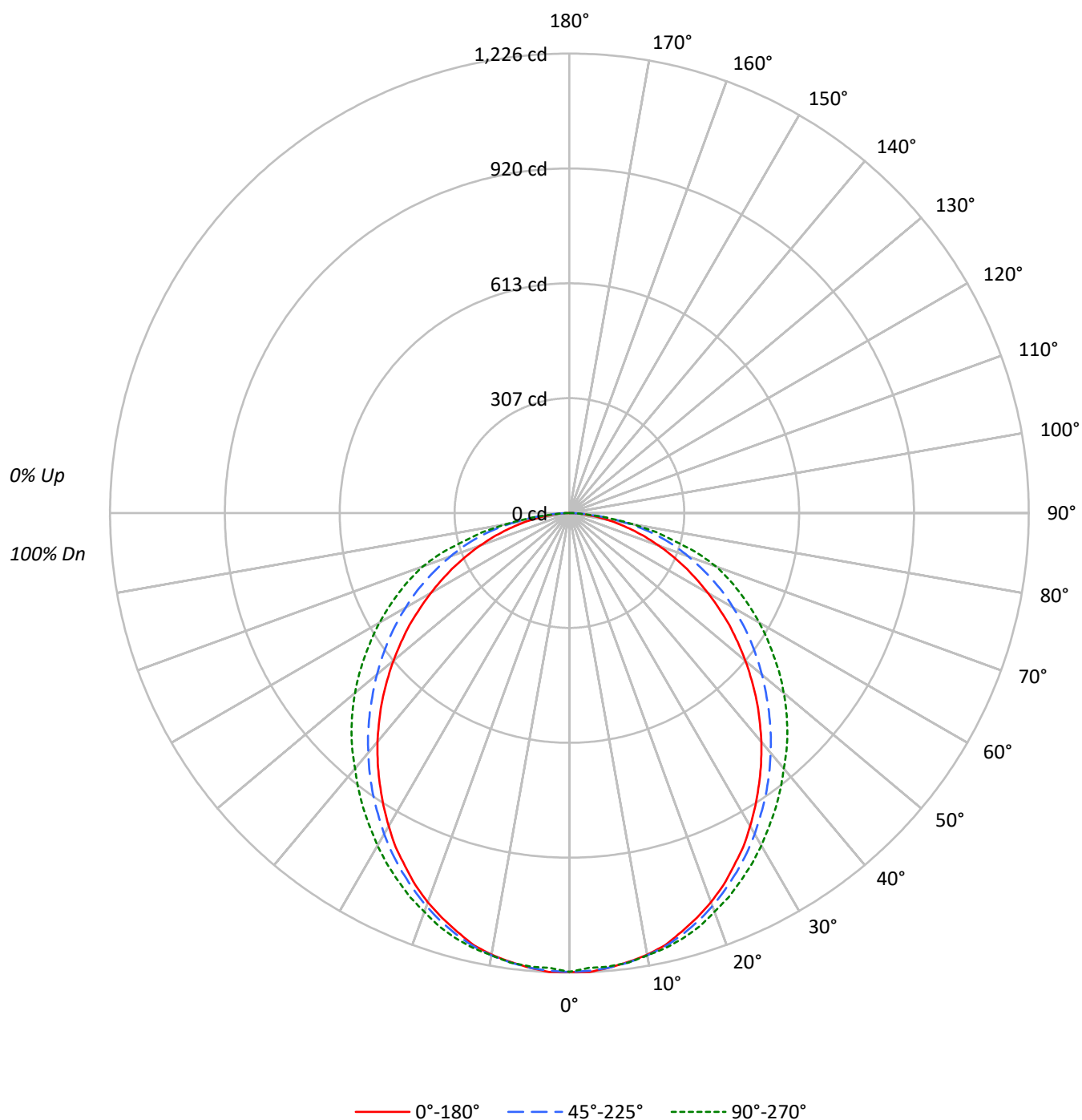
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3294	3294	3294
5°	3275	3269	3266
10°	3241	3234	3245
15°	3179	3184	3228
20°	3107	3116	3184
25°	3014	3036	3140
30°	2913	2951	3093
35°	2800	2862	3046
40°	2686	2770	3001
45°	2560	2677	2981
50°	2421	2590	2950
55°	2281	2508	2916
60°	2117	2420	2899
65°	1948	2327	2885
70°	1752	2221	2878
75°	1511	2083	2558
80°	1227	1749	2063
85°	823	1019	1045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.4
10°-20°	328.4	9.8
20°-30°	487.7	14.5
30°-40°	574.1	17.1
40°-50°	585.3	17.4
50°-60°	527.8	15.7
60°-70°	415.8	12.4
70°-80°	256.5	7.6
80°-90°	66.6	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°	931.7	27.7
0°-40°	1505.8	44.8
0°-60°	2618.9	78.0
0°-90°	3357.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1218	1219	1218	1216	1214	116
15°	1156	1161	1164	1171	1174	326
25°	1039	1045	1056	1074	1082	479
35°	882	892	914	943	960	552
45°	706	718	753	798	822	544
55°	521	539	589	642	666	465
65°	339	363	421	474	502	335
75°	172	202	253	282	292	184
85°	42	53	60	56	53	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.1	1224.1	1224.1	1224.1	1224.1
2.5°	1225.7	1225.7	1222.5	1219.2	1214.4
5°	1217.6	1219.2	1217.6	1216.0	1214.4
7.5°	1207.9	1209.5	1209.5	1209.5	1209.5
10°	1196.6	1198.2	1198.2	1198.2	1198.2
12.5°	1180.6	1182.2	1183.8	1185.4	1188.6
15°	1156.3	1161.2	1164.4	1170.9	1174.1
17.5°	1132.1	1137.0	1141.8	1149.9	1156.3
20°	1104.8	1108.0	1116.1	1125.7	1132.1
22.5°	1074.1	1078.9	1087.0	1099.9	1109.6
25°	1038.6	1045.1	1056.3	1074.1	1082.1
27.5°	1004.7	1009.6	1024.1	1043.5	1054.8
30°	964.4	970.9	988.6	1012.8	1024.1
32.5°	924.1	932.1	951.5	979.0	991.8
35°	882.2	891.9	914.5	943.4	959.6
37.5°	840.3	850.0	875.7	908.0	925.7
40°	796.7	806.4	835.4	870.9	890.2
42.5°	751.5	762.8	795.1	835.4	857.9
45°	706.4	717.6	753.2	798.3	822.5
47.5°	659.6	672.5	711.3	761.2	785.4
50°	612.8	627.4	670.9	722.5	746.7
52.5°	566.1	582.2	629.0	682.2	708.0
55°	520.9	538.6	588.6	641.9	666.0
57.5°	472.5	493.5	546.7	598.3	625.8
60°	427.4	449.9	504.8	556.4	585.4
62.5°	382.2	406.4	464.5	516.0	543.5
65°	338.7	362.9	420.9	474.1	501.6
67.5°	295.2	322.5	379.0	432.2	459.6
70°	253.2	282.2	337.1	388.6	416.1
72.5°	212.9	241.9	296.8	345.1	361.3
75°	172.5	201.6	253.2	282.2	291.9
77.5°	135.5	162.9	208.0	225.8	238.6
80°	101.6	125.8	158.1	169.4	170.9
82.5°	69.4	90.3	109.6	111.2	109.6
85°	41.9	53.2	59.7	56.4	53.2
87.5°	19.4	21.0	19.4	12.9	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)