

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-LD5-35-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-S-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354.8 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

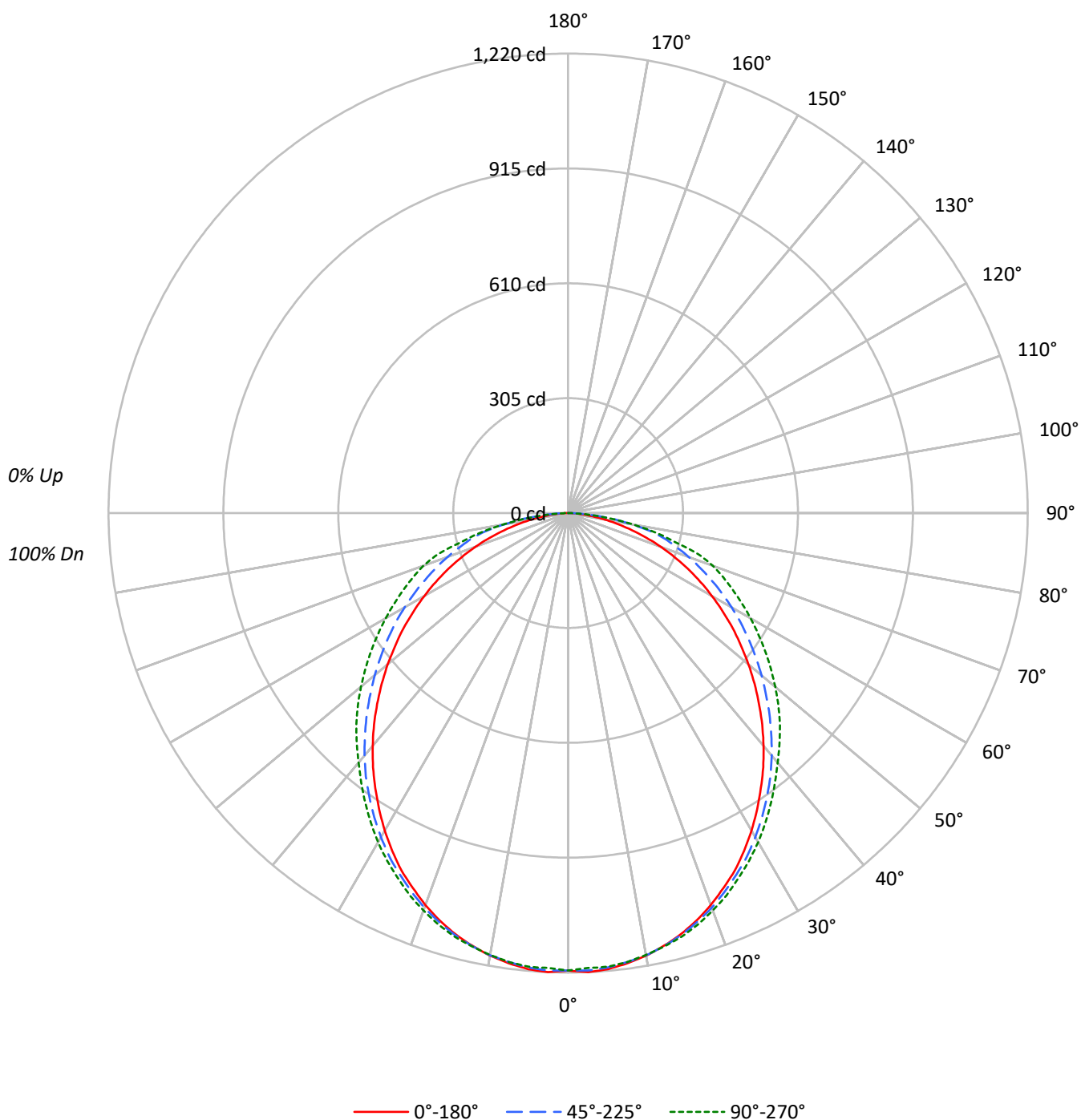
Input Watts (W): 25.32
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50		
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43		
6	70	56	47	41	68	55	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	35	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	33	29	39	33	29	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1634	1634	1634
5°	1638	1628	1626
10°	1623	1614	1613
15°	1602	1593	1600
20°	1571	1566	1579
25°	1537	1533	1551
30°	1491	1498	1524
35°	1440	1457	1490
40°	1388	1414	1458
45°	1330	1366	1440
50°	1271	1319	1418
55°	1209	1275	1398
60°	1137	1235	1385
65°	1059	1197	1387
70°	962	1169	1413
75°	834	1158	1262
80°	666	1011	1051
85°	443	655	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.4
10°-20°	326.6	9.7
20°-30°	486.7	14.5
30°-40°	572.9	17.1
40°-50°	582.2	17.4
50°-60°	523.4	15.6
60°-70°	413.5	12.3
70°-80°	262.3	7.8
80°-90°	72.4	2.2
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°	928.1	27.7
0°-40°	1501.0	44.7
0°-60°	2606.6	77.7
0°-90°	3354.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1216	1206	1211	1209	1209	115
15°	1158	1152	1160	1163	1164	326
25°	1047	1046	1058	1065	1069	481
35°	892	898	920	930	939	558
45°	717	727	756	778	795	553
55°	534	547	585	623	638	477
65°	351	368	419	464	482	347
75°	175	205	267	290	288	187
85°	37	64	68	62	62	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1214.5	1214.5	1214.5	1214.5	1214.5
2.5°	1220.1	1211.2	1215.6	1213.4	1209.0
5°	1215.6	1205.6	1211.2	1209.0	1209.0
7.5°	1205.6	1197.8	1202.2	1201.1	1202.2
10°	1193.3	1185.5	1192.2	1192.2	1191.0
12.5°	1176.6	1169.8	1177.6	1177.6	1178.8
15°	1157.6	1152.0	1159.8	1163.2	1164.2
17.5°	1134.1	1128.5	1138.6	1141.9	1145.3
20°	1107.3	1105.1	1115.1	1118.5	1123.0
22.5°	1077.2	1077.2	1087.3	1091.7	1098.4
25°	1047.1	1046.0	1058.2	1065.0	1069.4
27.5°	1011.4	1012.4	1028.1	1034.7	1040.3
30°	973.4	975.6	993.5	1001.3	1009.1
32.5°	933.2	937.6	957.8	966.7	974.5
35°	891.9	897.5	919.8	929.9	938.8
37.5°	850.6	858.4	881.9	891.9	901.9
40°	807.0	813.8	840.6	852.8	865.1
42.5°	762.4	771.3	798.1	816.0	830.5
45°	716.7	726.7	755.7	778.0	794.8
47.5°	670.9	684.3	712.2	742.3	756.9
50°	625.1	638.5	669.8	703.3	717.7
52.5°	578.3	591.7	627.4	662.0	677.5
55°	533.6	547.0	584.9	622.9	638.5
57.5°	486.7	501.2	543.6	582.7	598.3
60°	440.9	455.4	501.2	542.5	559.3
62.5°	396.2	411.9	459.9	503.4	520.2
65°	350.6	368.4	418.6	464.4	482.2
67.5°	305.9	325.9	378.4	426.5	445.4
70°	261.2	284.6	340.5	389.6	408.6
72.5°	217.6	243.4	302.5	351.6	361.7
75°	175.3	205.4	266.8	290.2	288.0
77.5°	135.1	168.5	226.6	231.0	237.8
80°	98.2	135.1	169.7	178.6	174.1
82.5°	64.8	101.6	121.7	117.2	116.1
85°	36.9	63.6	68.1	62.5	62.5
87.5°	15.7	25.6	22.3	16.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)