

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-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 (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

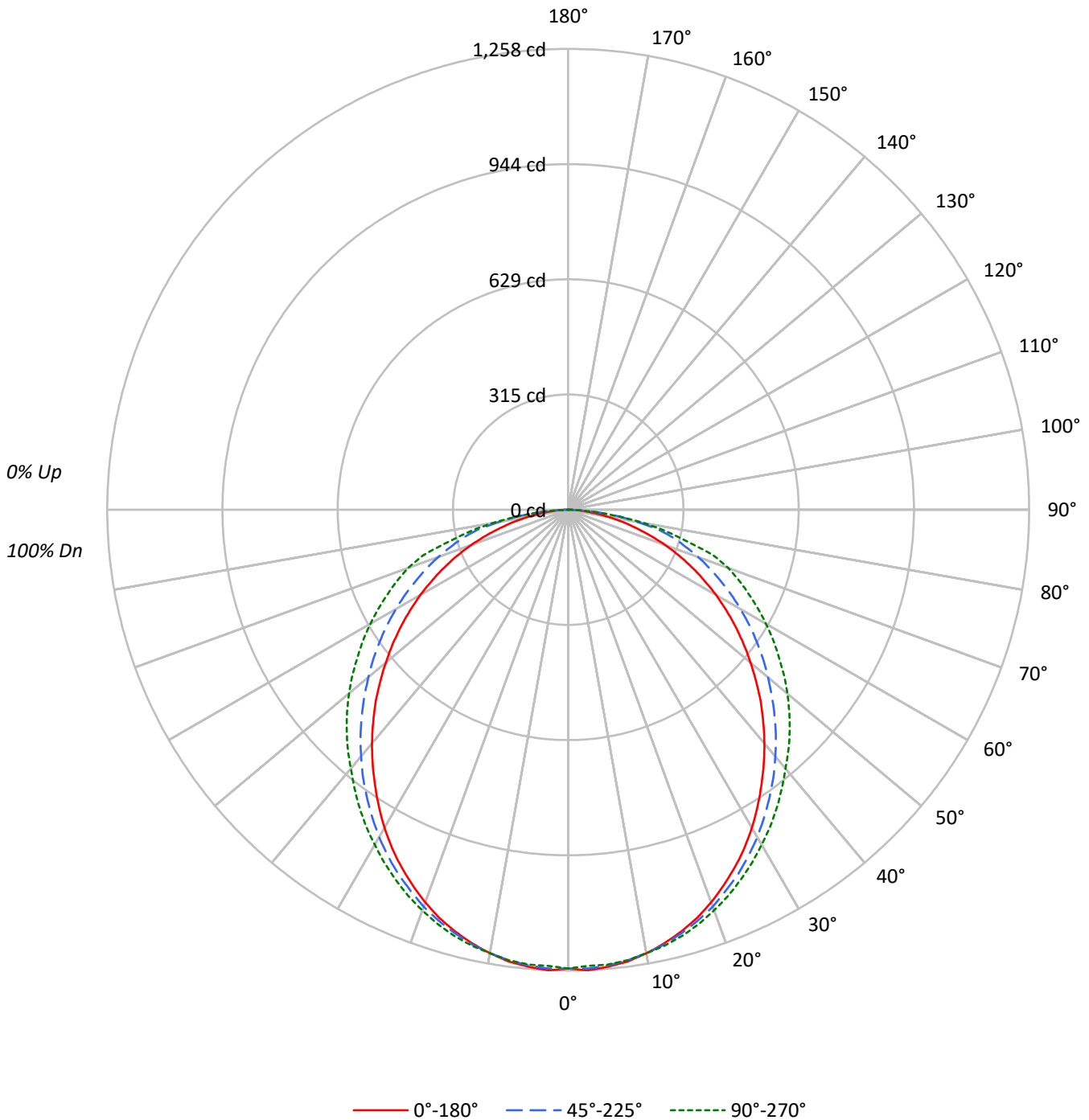
Lumens per Lamp: N/A
Luminaire Lumens: 3563.9 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1685	1685	1685
5°	1688	1679	1676
10°	1672	1664	1665
15°	1649	1643	1655
20°	1619	1620	1637
25°	1580	1590	1616
30°	1536	1555	1595
35°	1484	1517	1576
40°	1433	1478	1555
45°	1380	1439	1549
50°	1321	1401	1542
55°	1263	1369	1537
60°	1201	1339	1543
65°	1128	1310	1562
70°	1035	1294	1606
75°	905	1289	1476
80°	740	1134	1251
85°	509	734	714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.3
10°-20°	337.1	9.5
20°-30°	503.9	14.1
30°-40°	597.5	16.8
40°-50°	614.5	17.2
50°-60°	562.1	15.8
60°-70°	453.3	12.7
70°-80°	294.3	8.3
80°-90°	82.8	2.3
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°	959.4	26.9
0°-40°	1556.9	43.7
0°-60°	2733.4	76.7
0°-90°	3563.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1252	1244	1249	1246	1246	119
15°	1192	1186	1197	1202	1204	336
25°	1077	1077	1097	1106	1114	496
35°	919	928	958	977	993	575
45°	743	756	796	833	855	573
55°	558	576	628	678	702	499
65°	373	395	458	518	543	369
75°	190	226	297	333	337	203
85°	42	70	76	75	73	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1258.4	1248.7	1253.6	1251.2	1246.3
5°	1252.4	1243.9	1248.7	1246.3	1246.3
7.5°	1243.9	1235.4	1240.3	1240.3	1240.3
10°	1229.3	1222.1	1229.3	1229.3	1229.3
12.5°	1212.4	1206.3	1214.8	1216.0	1218.4
15°	1191.8	1185.7	1196.6	1201.5	1203.9
17.5°	1168.7	1163.9	1176.0	1182.1	1185.7
20°	1140.8	1137.2	1153.0	1159.0	1163.9
22.5°	1109.3	1109.3	1125.1	1132.4	1140.8
25°	1076.6	1076.6	1097.2	1105.7	1114.2
27.5°	1041.4	1042.6	1065.7	1077.8	1086.3
30°	1002.6	1007.5	1031.7	1046.3	1056.0
32.5°	961.4	967.5	995.4	1013.5	1025.7
35°	919.0	927.5	957.8	977.2	992.9
37.5°	876.5	887.5	920.2	942.0	957.8
40°	832.9	845.0	879.0	904.4	922.6
42.5°	788.0	801.4	839.0	868.1	889.9
45°	743.2	756.5	796.5	832.9	854.7
47.5°	695.9	711.7	754.1	796.5	818.4
50°	649.8	666.8	711.7	757.7	780.8
52.5°	603.8	623.2	670.4	718.9	742.0
55°	557.7	575.9	628.0	677.7	702.0
57.5°	511.6	531.0	585.6	637.7	663.2
60°	465.6	486.2	543.1	597.7	623.2
62.5°	418.3	440.1	500.7	557.7	583.2
65°	373.4	395.2	458.3	517.7	543.1
67.5°	327.3	351.6	417.1	477.7	504.3
70°	281.3	307.9	377.0	437.7	464.3
72.5°	235.2	265.5	335.8	396.4	415.8
75°	190.3	225.5	297.0	333.4	337.0
77.5°	149.1	185.5	253.4	267.9	275.2
80°	109.1	149.1	190.3	208.5	207.3
82.5°	72.7	114.0	137.0	139.4	137.0
85°	42.4	70.3	76.4	75.2	72.7
87.5°	18.2	27.9	24.2	20.6	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)