

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-LD5-40SE-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-S-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

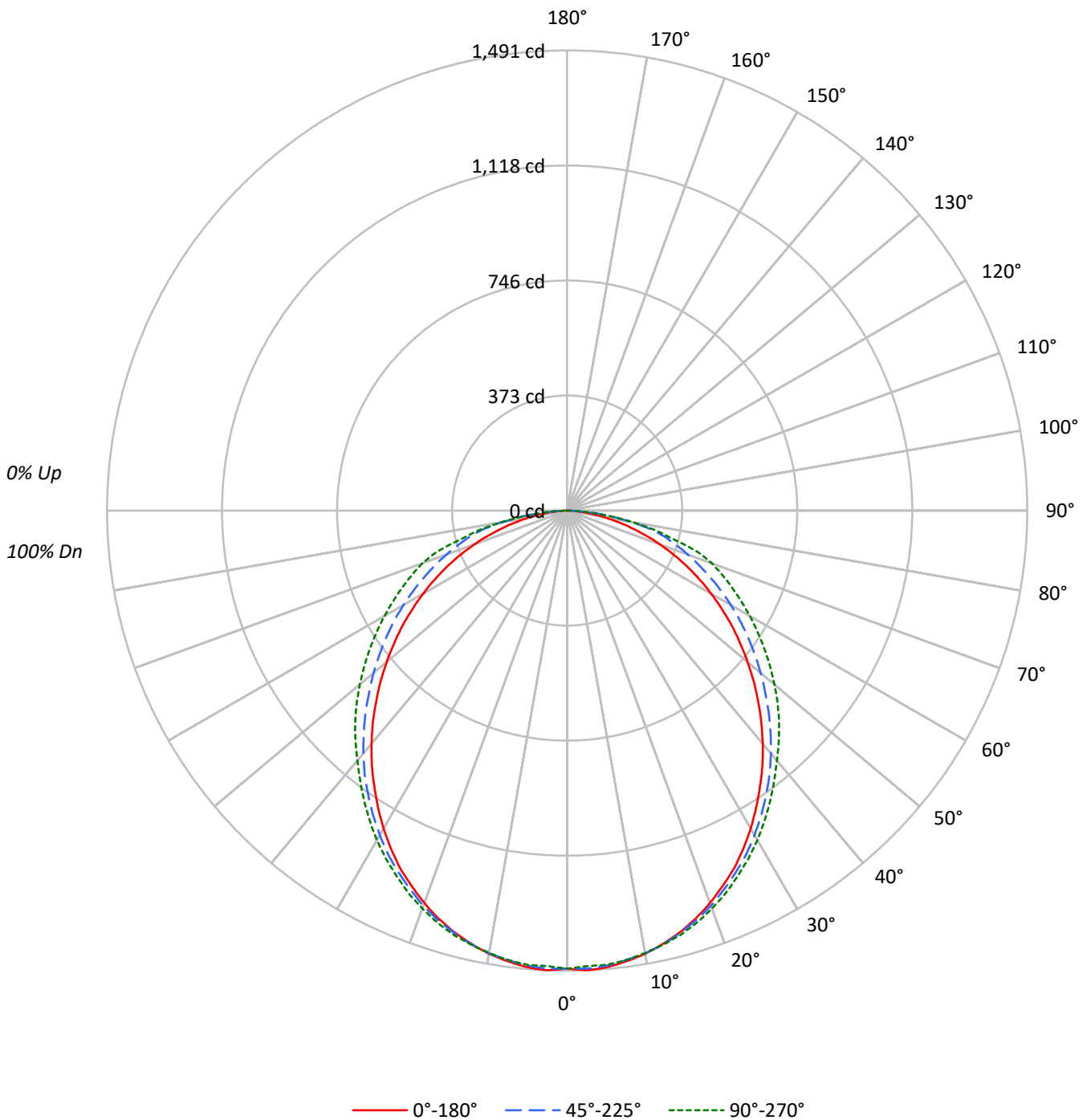
Lumens per Lamp: N/A
Luminaire Lumens: 4099.4 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 32.55
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	1997	1997	1997
5°	2002	1990	1986
10°	1983	1972	1971
15°	1957	1946	1956
20°	1920	1914	1930
25°	1877	1873	1896
30°	1822	1830	1862
35°	1759	1780	1820
40°	1697	1727	1782
45°	1626	1669	1760
50°	1553	1611	1733
55°	1477	1558	1708
60°	1390	1509	1692
65°	1294	1462	1694
70°	1175	1428	1727
75°	1019	1415	1542
80°	814	1235	1285
85°	540	800	751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	3.4
10°-20°	399.0	9.7
20°-30°	594.7	14.5
30°-40°	700.0	17.1
40°-50°	711.4	17.4
50°-60°	639.6	15.6
60°-70°	505.3	12.3
70°-80°	320.6	7.8
80°-90°	88.5	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°	1134.0	27.7
0°-40°	1834.1	44.7
0°-60°	3185.1	77.7
0°-90°	4099.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4099.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1485	1473	1480	1477	1477	141
15°	1414	1408	1417	1421	1423	398
25°	1279	1278	1293	1301	1307	588
35°	1090	1097	1124	1136	1147	682
45°	876	888	923	951	971	676
55°	652	668	715	761	780	582
65°	428	450	512	567	589	424
75°	214	251	326	355	352	228
85°	45	78	83	76	76	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.1	1484.1	1484.1	1484.1	1484.1
2.5°	1490.9	1480.0	1485.4	1482.7	1477.2
5°	1485.4	1473.1	1480.0	1477.2	1477.2
7.5°	1473.1	1463.6	1469.0	1467.7	1469.0
10°	1458.1	1448.6	1456.8	1456.8	1455.4
12.5°	1437.7	1429.5	1439.0	1439.0	1440.4
15°	1414.5	1407.7	1417.2	1421.3	1422.7
17.5°	1385.8	1379.0	1391.3	1395.4	1399.5
20°	1353.1	1350.4	1362.7	1366.7	1372.2
22.5°	1316.3	1316.3	1328.6	1334.0	1342.2
25°	1279.4	1278.1	1293.1	1301.3	1306.7
27.5°	1235.8	1237.2	1256.3	1264.4	1271.3
30°	1189.4	1192.2	1214.0	1223.5	1233.1
32.5°	1140.3	1145.8	1170.3	1181.2	1190.8
35°	1089.8	1096.7	1124.0	1136.2	1147.1
37.5°	1039.4	1048.9	1077.6	1089.8	1102.1
40°	986.2	994.4	1027.1	1042.1	1057.1
42.5°	931.6	942.5	975.3	997.1	1014.8
45°	875.7	888.0	923.4	950.7	971.2
47.5°	819.8	836.1	870.2	907.1	924.8
50°	763.8	780.2	818.4	859.3	877.1
52.5°	706.6	722.9	766.6	808.9	828.0
55°	652.0	668.4	714.7	761.1	780.2
57.5°	594.7	612.4	664.3	712.0	731.1
60°	538.8	556.5	612.4	662.9	683.4
62.5°	484.2	503.3	562.0	615.2	635.6
65°	428.3	450.1	511.5	567.4	589.3
67.5°	373.7	398.3	462.4	521.1	544.2
70°	319.2	347.8	416.0	476.0	499.2
72.5°	266.0	297.4	369.6	429.7	441.9
75°	214.2	251.0	326.0	354.6	351.9
77.5°	165.0	206.0	276.9	282.4	290.5
80°	120.0	165.0	207.3	218.2	212.8
82.5°	79.1	124.1	148.7	143.2	141.9
85°	45.0	77.7	83.2	76.4	76.4
87.5°	19.1	31.4	27.3	20.5	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)