

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-LD5-40-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-LD5-40-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

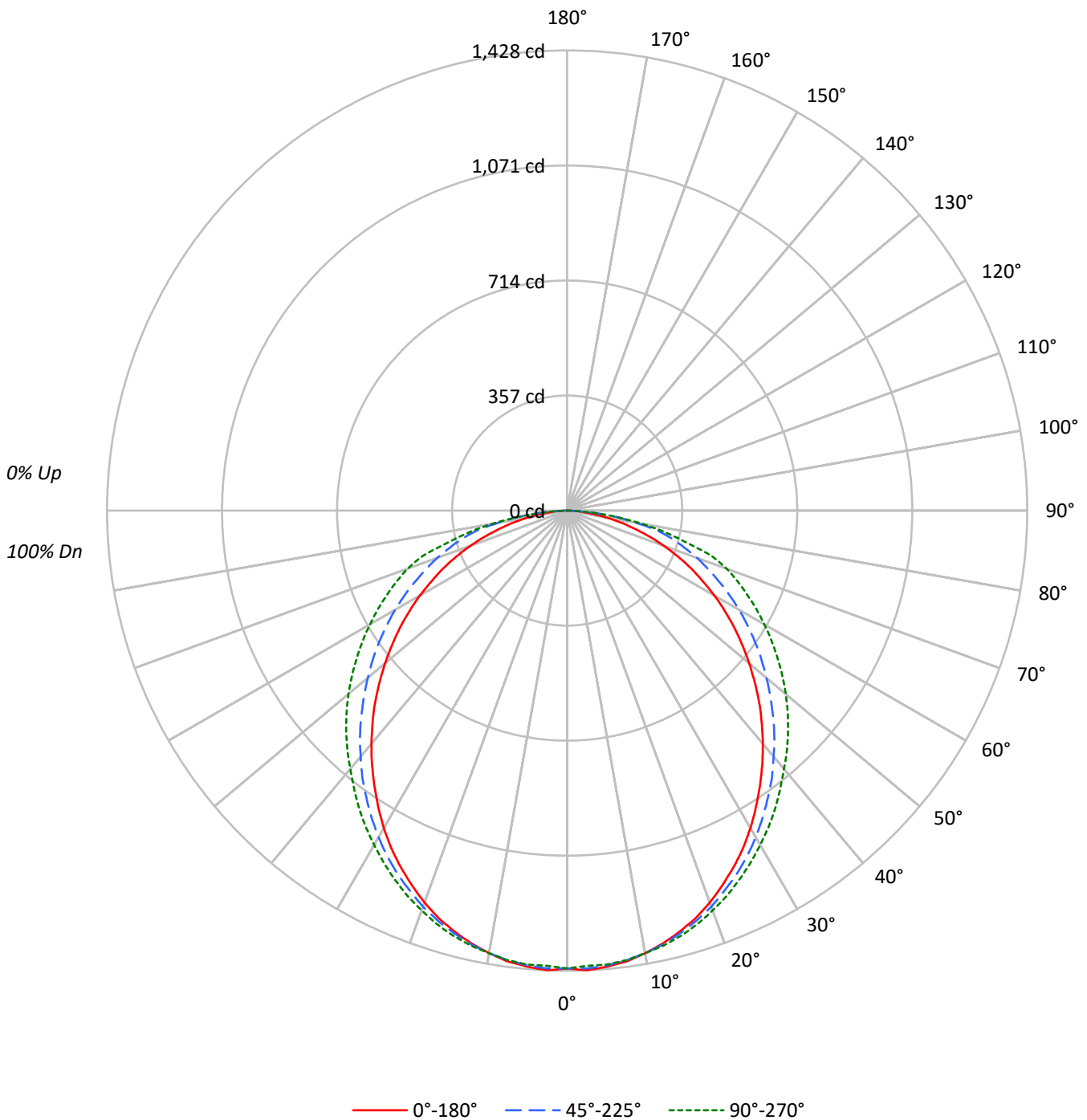
Lumens per Lamp: N/A
Luminaire Lumens: 4043.3 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.04
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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1912	1912	1912
5°	1915	1905	1901
10°	1897	1888	1889
15°	1871	1865	1877
20°	1837	1838	1857
25°	1792	1803	1834
30°	1742	1765	1809
35°	1683	1721	1788
40°	1626	1677	1764
45°	1565	1633	1757
50°	1498	1590	1750
55°	1433	1554	1744
60°	1362	1519	1751
65°	1280	1486	1772
70°	1175	1469	1822
75°	1027	1462	1675
80°	840	1286	1420
85°	578	833	810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	3.3
10°-20°	382.4	9.5
20°-30°	571.7	14.1
30°-40°	677.9	16.8
40°-50°	697.1	17.2
50°-60°	637.7	15.8
60°-70°	514.3	12.7
70°-80°	333.9	8.3
80°-90°	94.0	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°	1088.5	26.9
0°-40°	1766.3	43.7
0°-60°	3101.1	76.7
0°-90°	4043.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4043.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1421	1411	1417	1414	1414	135
15°	1352	1345	1358	1363	1366	381
25°	1221	1221	1245	1254	1264	562
35°	1043	1052	1087	1109	1126	652
45°	843	858	904	945	970	650
55°	633	653	712	769	796	566
65°	424	448	520	587	616	419
75°	216	256	337	378	382	230
85°	48	80	87	85	82	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1420.8	1420.8	1420.8	1420.8	1420.8
2.5°	1427.7	1416.7	1422.2	1419.5	1414.0
5°	1420.8	1411.2	1416.7	1414.0	1414.0
7.5°	1411.2	1401.6	1407.1	1407.1	1407.1
10°	1394.7	1386.5	1394.7	1394.7	1394.7
12.5°	1375.5	1368.6	1378.2	1379.6	1382.3
15°	1352.1	1345.2	1357.6	1363.1	1365.8
17.5°	1325.9	1320.4	1334.2	1341.1	1345.2
20°	1294.3	1290.2	1308.1	1314.9	1320.4
22.5°	1258.5	1258.5	1276.4	1284.7	1294.3
25°	1221.4	1221.4	1244.8	1254.4	1264.0
27.5°	1181.5	1182.9	1209.0	1222.8	1232.4
30°	1137.5	1143.0	1170.5	1187.0	1198.0
32.5°	1090.7	1097.6	1129.3	1149.9	1163.6
35°	1042.6	1052.2	1086.6	1108.6	1126.5
37.5°	994.5	1006.8	1044.0	1068.7	1086.6
40°	944.9	958.7	997.2	1026.1	1046.7
42.5°	894.0	909.2	951.8	984.8	1009.6
45°	843.2	858.3	903.7	944.9	969.7
47.5°	789.5	807.4	855.5	903.7	928.4
50°	737.2	756.5	807.4	859.7	885.8
52.5°	685.0	707.0	760.6	815.6	841.8
55°	632.7	653.3	712.5	768.9	796.4
57.5°	580.4	602.5	664.3	723.5	752.4
60°	528.2	551.6	616.2	678.1	707.0
62.5°	474.5	499.3	568.1	632.7	661.6
65°	423.6	448.4	519.9	587.3	616.2
67.5°	371.4	398.9	473.2	541.9	572.2
70°	319.1	349.4	427.8	496.5	526.8
72.5°	266.8	301.2	381.0	449.8	471.8
75°	215.9	255.8	337.0	378.3	382.4
77.5°	169.2	210.4	287.5	304.0	312.2
80°	123.8	169.2	215.9	236.6	235.2
82.5°	82.5	129.3	155.4	158.2	155.4
85°	48.1	79.8	86.7	85.3	82.5
87.5°	20.6	31.6	27.5	23.4	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)