

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-LD5-45-S-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45-S-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4649.5 lumens
Efficiency: N/A
Efficacy: 130.3 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

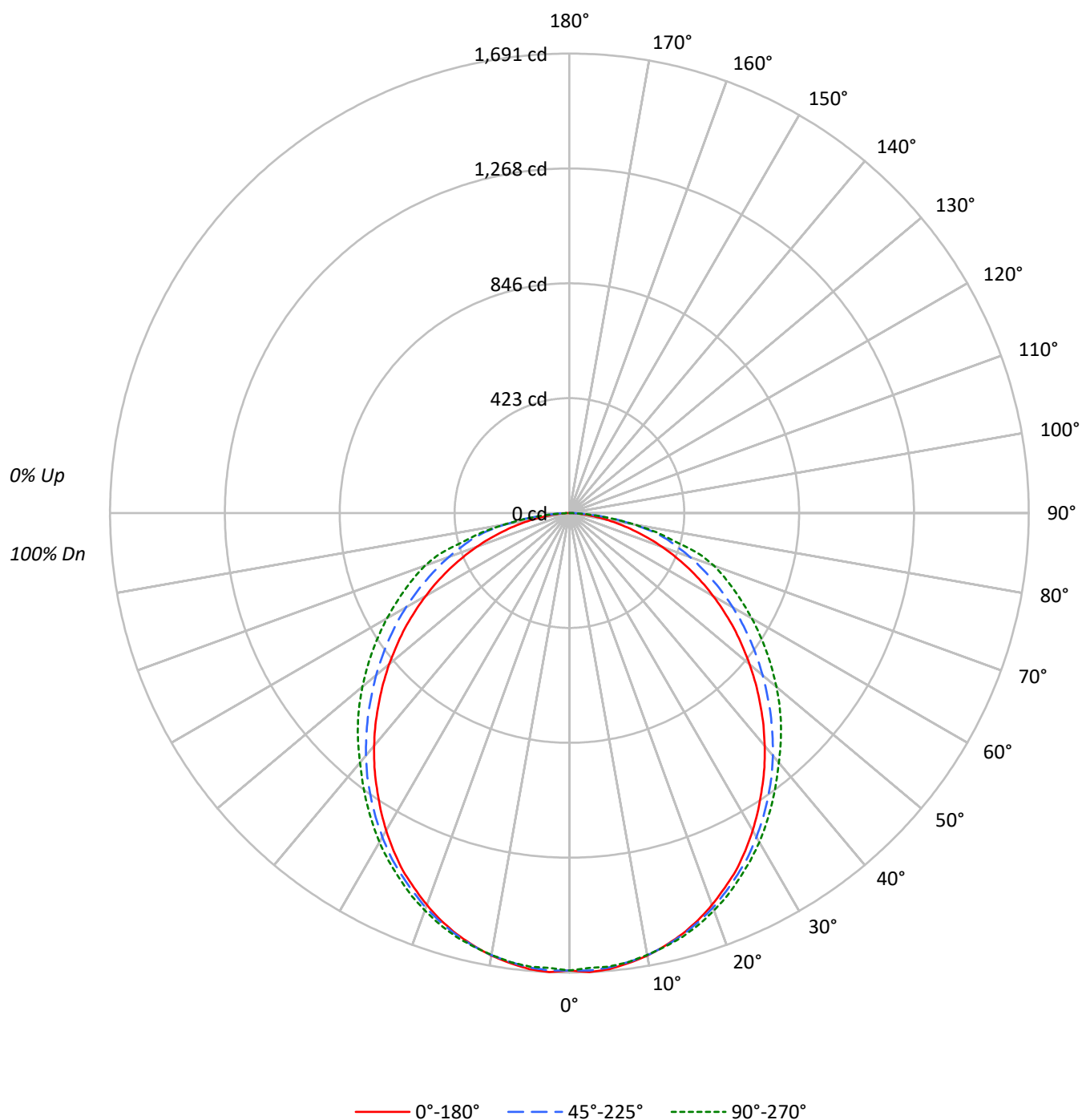
Input Watts (W): 35.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2265	2265	2265
5°	2271	2257	2253
10°	2250	2237	2236
15°	2220	2208	2218
20°	2178	2171	2189
25°	2130	2125	2150
30°	2066	2076	2112
35°	1995	2019	2065
40°	1924	1959	2021
45°	1844	1893	1996
50°	1761	1827	1965
55°	1675	1768	1937
60°	1576	1712	1920
65°	1468	1659	1922
70°	1333	1620	1958
75°	1155	1605	1748
80°	924	1401	1457
85°	614	907	851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	3.4
10°-20°	452.6	9.7
20°-30°	674.5	14.5
30°-40°	794.0	17.1
40°-50°	806.9	17.4
50°-60°	725.4	15.6
60°-70°	573.1	12.3
70°-80°	363.6	7.8
80°-90°	100.3	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°	1286.2	27.7
0°-40°	2080.2	44.7
0°-60°	3612.5	77.7
0°-90°	4649.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4649.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1685	1671	1679	1676	1676	160
15°	1604	1597	1607	1612	1614	452
25°	1451	1450	1467	1476	1482	667
35°	1236	1244	1275	1289	1301	773
45°	993	1007	1047	1078	1102	766
55°	740	758	811	863	885	660
65°	486	510	580	644	668	481
75°	243	285	370	402	399	259
85°	51	88	94	87	87	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1691.0	1678.6	1684.8	1681.7	1675.5
5°	1684.8	1670.8	1678.6	1675.5	1675.5
7.5°	1670.8	1660.0	1666.2	1664.7	1666.2
10°	1653.8	1643.0	1652.3	1652.3	1650.7
12.5°	1630.6	1621.3	1632.2	1632.2	1633.7
15°	1604.3	1596.6	1607.4	1612.1	1613.6
17.5°	1571.8	1564.1	1578.0	1582.7	1587.3
20°	1534.7	1531.6	1545.5	1550.2	1556.4
22.5°	1492.9	1492.9	1506.9	1513.0	1522.3
25°	1451.2	1449.6	1466.6	1475.9	1482.1
27.5°	1401.7	1403.2	1424.9	1434.1	1441.9
30°	1349.1	1352.1	1376.9	1387.7	1398.6
32.5°	1293.4	1299.5	1327.4	1339.8	1350.6
35°	1236.1	1243.9	1274.8	1288.7	1301.1
37.5°	1178.9	1189.7	1222.2	1236.1	1250.0
40°	1118.5	1127.8	1165.0	1182.0	1199.0
42.5°	1056.7	1069.0	1106.2	1130.9	1151.0
45°	993.2	1007.1	1047.4	1078.3	1101.5
47.5°	929.8	948.4	987.0	1028.8	1048.9
50°	866.4	884.9	928.2	974.7	994.8
52.5°	801.4	820.0	869.5	917.4	939.1
55°	739.5	758.1	810.7	863.3	884.9
57.5°	674.5	694.6	753.4	807.6	829.2
60°	611.1	631.2	694.6	751.9	775.1
62.5°	549.2	570.9	637.4	697.7	720.9
65°	485.8	510.5	580.2	643.6	668.3
67.5°	423.9	451.7	524.5	591.0	617.3
70°	362.0	394.5	471.9	539.9	566.2
72.5°	301.7	337.3	419.3	487.3	501.3
75°	242.9	284.7	369.8	402.2	399.1
77.5°	187.2	233.6	314.1	320.2	329.5
80°	136.1	187.2	235.2	247.5	241.3
82.5°	89.7	140.8	168.6	162.4	160.9
85°	51.1	88.2	94.4	86.6	86.6
87.5°	21.7	35.6	30.9	23.2	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)