

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-LD5-50-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 (P25689)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-50-UNV-L830-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

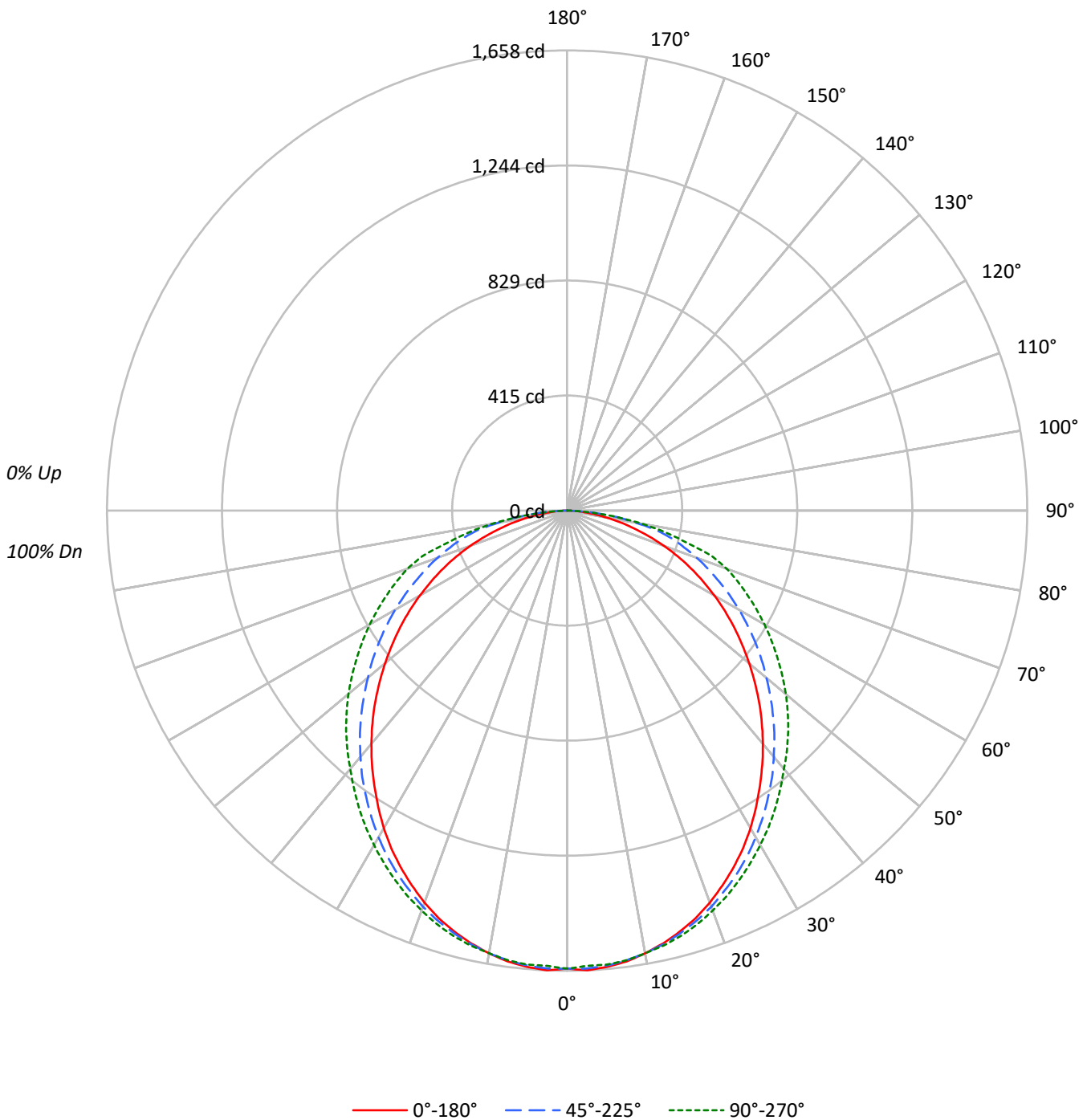
Lumens per Lamp: N/A  
Luminaire Lumens: 4695.4 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 40.68  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2220	2220	2220
5°	2224	2212	2208
10°	2203	2192	2194
15°	2173	2165	2180
20°	2133	2134	2156
25°	2081	2094	2130
30°	2023	2049	2101
35°	1955	1999	2076
40°	1888	1947	2049
45°	1818	1896	2041
50°	1740	1846	2032
55°	1664	1804	2025
60°	1582	1764	2033
65°	1487	1726	2058
70°	1364	1706	2116
75°	1193	1698	1945
80°	975	1494	1649
85°	671	967	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.0	3.3
10°-20°	444.1	9.5
20°-30°	663.9	14.1
30°-40°	787.2	16.8
40°-50°	809.6	17.2
50°-60°	740.5	15.8
60°-70°	597.2	12.7
70°-80°	387.7	8.3
80°-90°	109.1	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°	1264.0	26.9
0°-40°	2051.2	43.7
0°-60°	3601.3	76.7
0°-90°	4695.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4695.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1650	1639	1645	1642	1642	157
15°	1570	1562	1576	1583	1586	443
25°	1418	1418	1446	1457	1468	653
35°	1211	1222	1262	1287	1308	758
45°	979	997	1050	1097	1126	755
55°	735	759	827	893	925	657
65°	492	521	604	682	716	486
75°	251	297	391	439	444	267
85°	56	93	101	99	96	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1650.0	1650.0	1650.0	1650.0	1650.0
2.5°	1658.0	1645.2	1651.6	1648.4	1642.0
5°	1650.0	1638.8	1645.2	1642.0	1642.0
7.5°	1638.8	1627.6	1634.0	1634.0	1634.0
10°	1619.7	1610.1	1619.7	1619.7	1619.7
12.5°	1597.3	1589.4	1600.5	1602.1	1605.3
15°	1570.2	1562.2	1576.5	1582.9	1586.1
17.5°	1539.8	1533.4	1549.4	1557.3	1562.2
20°	1503.1	1498.2	1519.0	1527.0	1533.4
22.5°	1461.5	1461.5	1482.3	1491.9	1503.1
25°	1418.4	1418.4	1445.5	1456.7	1467.9
27.5°	1372.1	1373.7	1404.0	1420.0	1431.2
30°	1321.0	1327.3	1359.3	1378.4	1391.3
32.5°	1266.6	1274.6	1311.4	1335.3	1351.3
35°	1210.8	1221.9	1261.9	1287.4	1308.1
37.5°	1154.8	1169.3	1212.4	1241.1	1261.9
40°	1097.3	1113.3	1158.0	1191.6	1215.5
42.5°	1038.3	1055.8	1105.3	1143.7	1172.4
45°	979.2	996.7	1049.5	1097.3	1126.1
47.5°	916.8	937.6	993.5	1049.5	1078.2
50°	856.1	878.5	937.6	998.4	1028.7
52.5°	795.4	821.0	883.3	947.2	977.6
55°	734.7	758.7	827.4	892.9	924.8
57.5°	674.0	699.6	771.5	840.2	873.7
60°	613.3	640.5	715.6	787.5	821.0
62.5°	551.1	579.8	659.7	734.7	768.3
65°	492.0	520.7	603.8	682.0	715.6
67.5°	431.3	463.2	549.5	629.4	664.4
70°	370.6	405.7	496.8	576.6	611.8
72.5°	309.9	349.8	442.4	522.3	547.9
75°	250.8	297.1	391.3	439.3	444.0
77.5°	196.5	244.3	333.8	353.0	362.6
80°	143.7	196.5	250.8	274.7	273.1
82.5°	95.9	150.1	180.5	183.7	180.5
85°	55.9	92.6	100.6	99.0	95.9
87.5°	23.9	36.8	31.9	27.2	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)