

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-LD5-50SE-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-LD5-50SE-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4787.7 lumens
Efficiency: N/A
Efficacy: 102.8 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

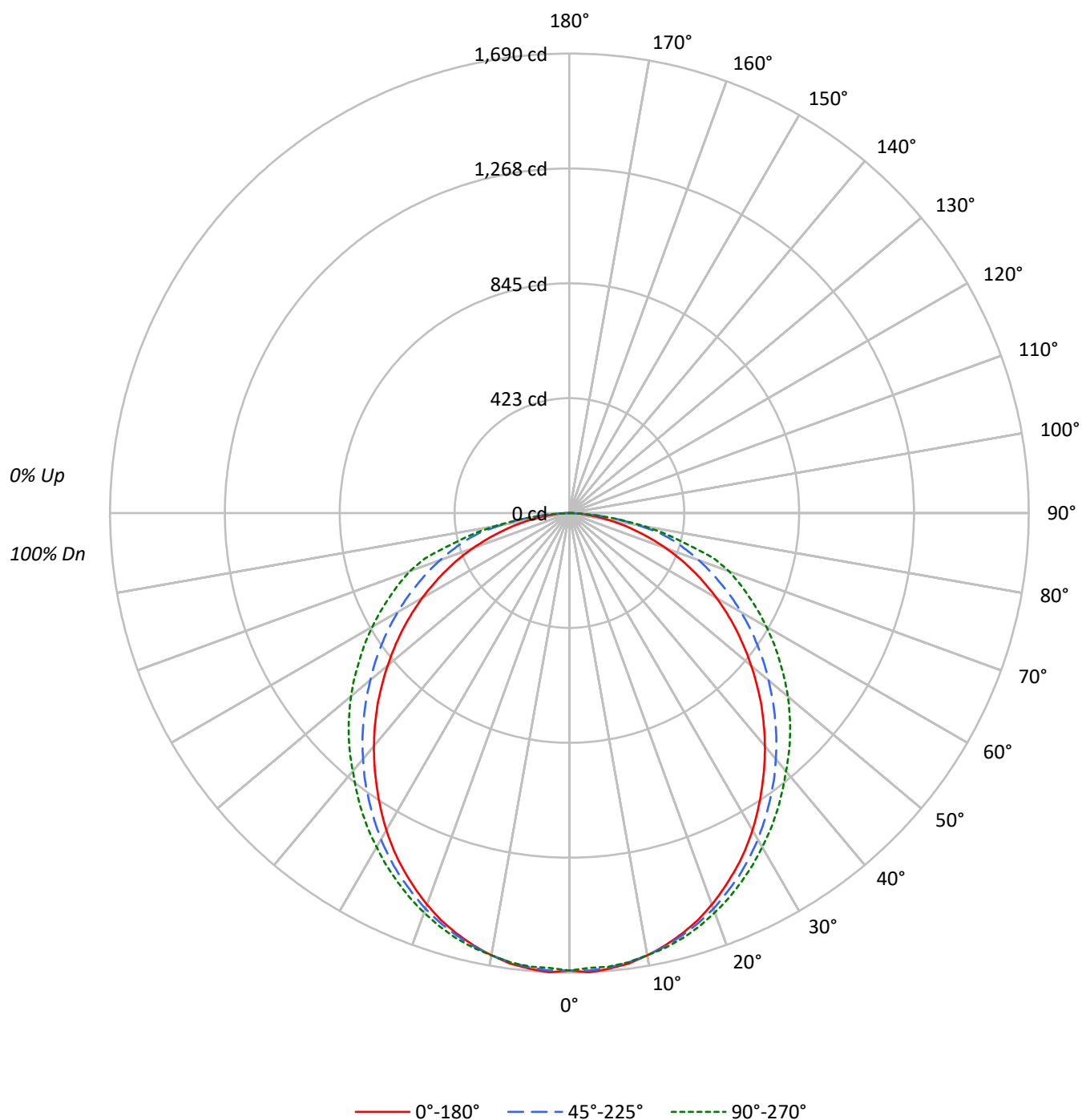
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
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°	2264	2264	2264
5°	2267	2255	2252
10°	2246	2235	2237
15°	2215	2208	2223
20°	2175	2176	2199
25°	2122	2135	2171
30°	2063	2089	2142
35°	1993	2038	2117
40°	1925	1986	2089
45°	1853	1934	2081
50°	1775	1882	2072
55°	1697	1840	2065
60°	1613	1798	2073
65°	1516	1760	2098
70°	1391	1739	2158
75°	1216	1732	1984
80°	995	1523	1681
85°	684	986	961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	3.3
10°-20°	452.8	9.5
20°-30°	676.9	14.1
30°-40°	802.7	16.8
40°-50°	825.5	17.2
50°-60°	755.1	15.8
60°-70°	609.0	12.7
70°-80°	395.4	8.3
80°-90°	111.2	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°	1288.8	26.9
0°-40°	2091.5	43.7
0°-60°	3672.1	76.7
0°-90°	4787.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4787.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1682	1671	1678	1674	1674	160
15°	1601	1593	1608	1614	1617	451
25°	1446	1446	1474	1485	1497	666
35°	1234	1246	1287	1313	1334	772
45°	998	1016	1070	1119	1148	770
55°	749	774	844	910	943	670
65°	502	531	616	695	730	496
75°	256	303	399	448	453	273
85°	57	94	103	101	98	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.4	1682.4	1682.4	1682.4	1682.4
2.5°	1690.5	1677.5	1684.1	1680.8	1674.3
5°	1682.4	1671.0	1677.5	1674.3	1674.3
7.5°	1671.0	1659.6	1666.1	1666.1	1666.1
10°	1651.5	1641.7	1651.5	1651.5	1651.5
12.5°	1628.7	1620.5	1631.9	1633.5	1636.8
15°	1601.0	1592.9	1607.5	1614.0	1617.3
17.5°	1570.1	1563.5	1579.8	1587.9	1592.9
20°	1532.5	1527.7	1548.9	1557.0	1563.5
22.5°	1490.3	1490.3	1511.4	1521.1	1532.5
25°	1446.3	1446.3	1473.9	1485.3	1496.7
27.5°	1399.1	1400.7	1431.6	1447.9	1459.3
30°	1346.9	1353.5	1386.0	1405.5	1418.5
32.5°	1291.5	1299.7	1337.1	1361.5	1377.9
35°	1234.5	1245.9	1286.7	1312.7	1333.9
37.5°	1177.5	1192.2	1236.1	1265.5	1286.7
40°	1118.9	1135.2	1180.8	1215.0	1239.5
42.5°	1058.7	1076.5	1127.1	1166.1	1195.5
45°	998.4	1016.3	1070.1	1118.9	1148.3
47.5°	934.9	956.1	1013.1	1070.1	1099.3
50°	873.0	895.8	956.1	1017.9	1048.9
52.5°	811.1	837.1	900.7	965.8	996.7
55°	749.2	773.6	843.7	910.4	943.0
57.5°	687.3	713.4	786.7	856.7	890.9
60°	625.4	653.1	729.7	802.9	837.1
62.5°	561.9	591.2	672.6	749.2	783.4
65°	501.6	531.0	615.6	695.4	729.7
67.5°	439.8	472.3	560.3	641.7	677.5
70°	377.8	413.7	506.5	588.0	623.8
72.5°	316.0	356.7	451.2	532.6	558.6
75°	255.7	303.0	399.0	447.9	452.8
77.5°	200.4	249.2	340.4	360.0	369.7
80°	146.6	200.4	255.7	280.2	278.5
82.5°	97.8	153.1	184.0	187.3	184.0
85°	57.0	94.4	102.6	101.0	97.8
87.5°	24.4	37.4	32.6	27.6	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)