

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-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-LD5-50SE-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5187.7 lumens
Efficiency: N/A
Efficacy: 111.4 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

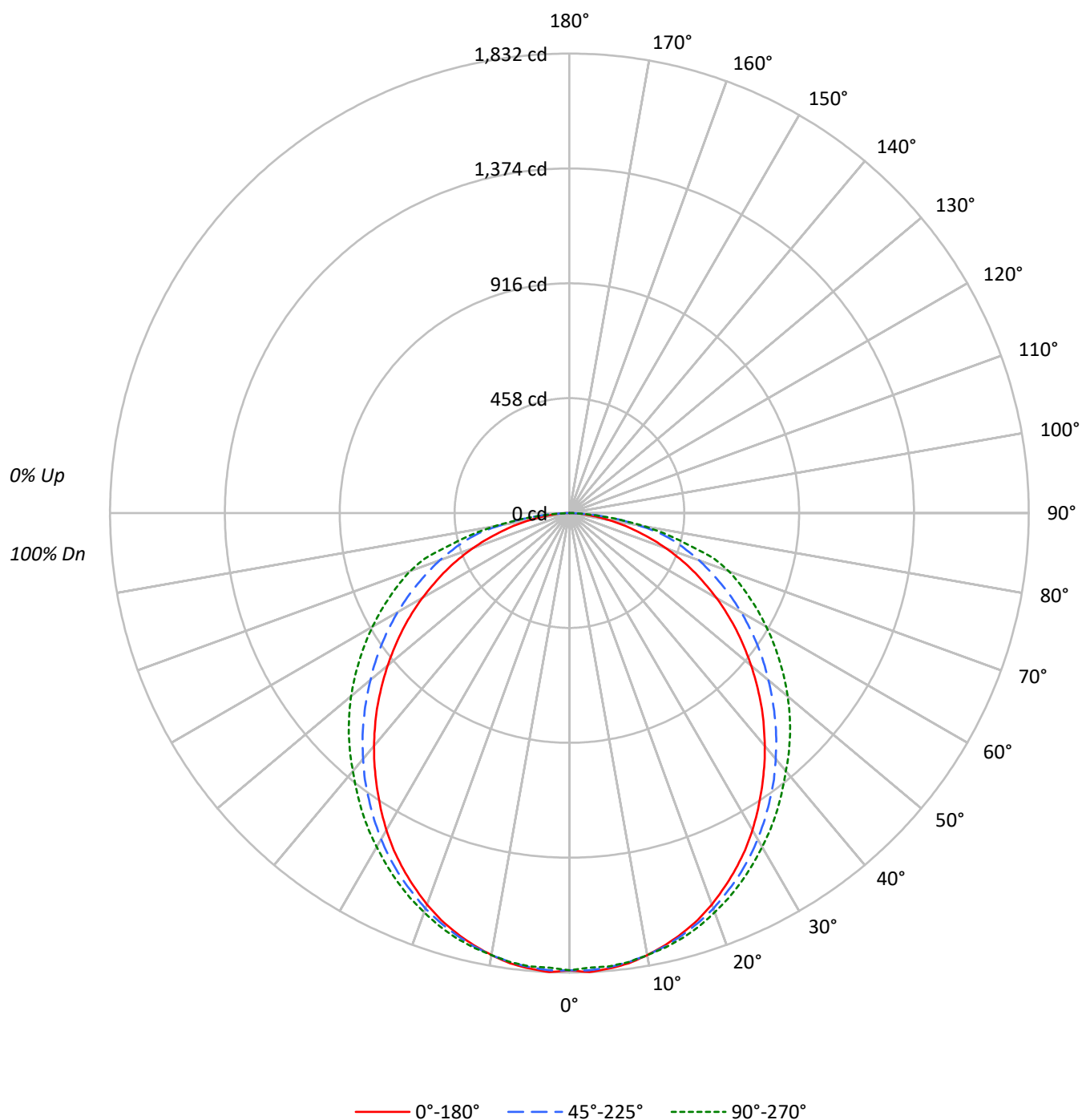
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10			
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°	2453	2453	2453
5°	2457	2444	2440
10°	2434	2422	2424
15°	2400	2392	2409
20°	2356	2358	2382
25°	2300	2314	2353
30°	2235	2264	2321
35°	2159	2208	2294
40°	2086	2152	2264
45°	2008	2095	2255
50°	1923	2039	2245
55°	1839	1994	2237
60°	1748	1949	2246
65°	1643	1907	2273
70°	1507	1884	2338
75°	1318	1876	2149
80°	1078	1651	1822
85°	742	1069	1040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	3.3
10°-20°	490.7	9.5
20°-30°	733.5	14.1
30°-40°	869.8	16.8
40°-50°	894.4	17.2
50°-60°	818.2	15.8
60°-70°	659.9	12.7
70°-80°	428.4	8.3
80°-90°	120.6	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°	1396.5	26.9
0°-40°	2266.3	43.7
0°-60°	3978.9	76.7
0°-90°	5187.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5187.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1823	1823	1823	1823	1823	
5°	1823	1811	1818	1814	1814	173
15°	1735	1726	1742	1749	1752	489
25°	1567	1567	1597	1610	1622	721
35°	1338	1350	1394	1422	1445	837
45°	1082	1101	1160	1212	1244	834
55°	812	838	914	986	1022	726
65°	544	575	667	754	791	537
75°	277	328	432	485	491	295
85°	62	102	111	109	106	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1823.0	1823.0	1823.0	1823.0	1823.0
2.5°	1831.8	1817.7	1824.8	1821.3	1814.2
5°	1823.0	1810.7	1817.7	1814.2	1814.2
7.5°	1810.7	1798.3	1805.4	1805.4	1805.4
10°	1789.5	1778.9	1789.5	1789.5	1789.5
12.5°	1764.8	1756.0	1768.3	1770.1	1773.6
15°	1734.8	1726.0	1741.8	1748.9	1752.4
17.5°	1701.2	1694.2	1711.8	1720.7	1726.0
20°	1660.7	1655.4	1678.3	1687.1	1694.2
22.5°	1614.8	1614.8	1637.7	1648.3	1660.7
25°	1567.1	1567.1	1597.1	1609.5	1621.8
27.5°	1515.9	1517.7	1551.2	1568.9	1581.2
30°	1459.5	1466.5	1501.8	1523.0	1537.1
32.5°	1399.5	1408.3	1448.9	1475.4	1493.0
35°	1337.7	1350.1	1394.2	1422.4	1445.4
37.5°	1275.9	1291.8	1339.5	1371.2	1394.2
40°	1212.4	1230.0	1279.5	1316.5	1343.0
42.5°	1147.1	1166.5	1221.2	1263.6	1295.3
45°	1081.8	1101.2	1159.5	1212.4	1244.2
47.5°	1013.0	1035.9	1097.7	1159.5	1191.2
50°	945.9	970.6	1035.9	1103.0	1136.5
52.5°	878.9	907.1	975.9	1046.5	1080.0
55°	811.8	838.3	914.2	986.5	1021.8
57.5°	744.7	773.0	852.4	928.3	965.3
60°	677.7	707.7	790.6	870.0	907.1
62.5°	608.8	640.6	728.9	811.8	848.9
65°	543.6	575.3	667.1	753.6	790.6
67.5°	476.5	511.8	607.1	695.3	734.1
70°	409.4	448.3	548.8	637.1	675.9
72.5°	342.4	386.5	488.8	577.1	605.3
75°	277.1	328.2	432.4	485.3	490.6
77.5°	217.1	270.0	368.8	390.0	400.6
80°	158.8	217.1	277.1	303.5	301.8
82.5°	105.9	165.9	199.4	202.9	199.4
85°	61.8	102.4	111.2	109.4	105.9
87.5°	26.5	40.6	35.3	30.0	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)