

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-L835-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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5086.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

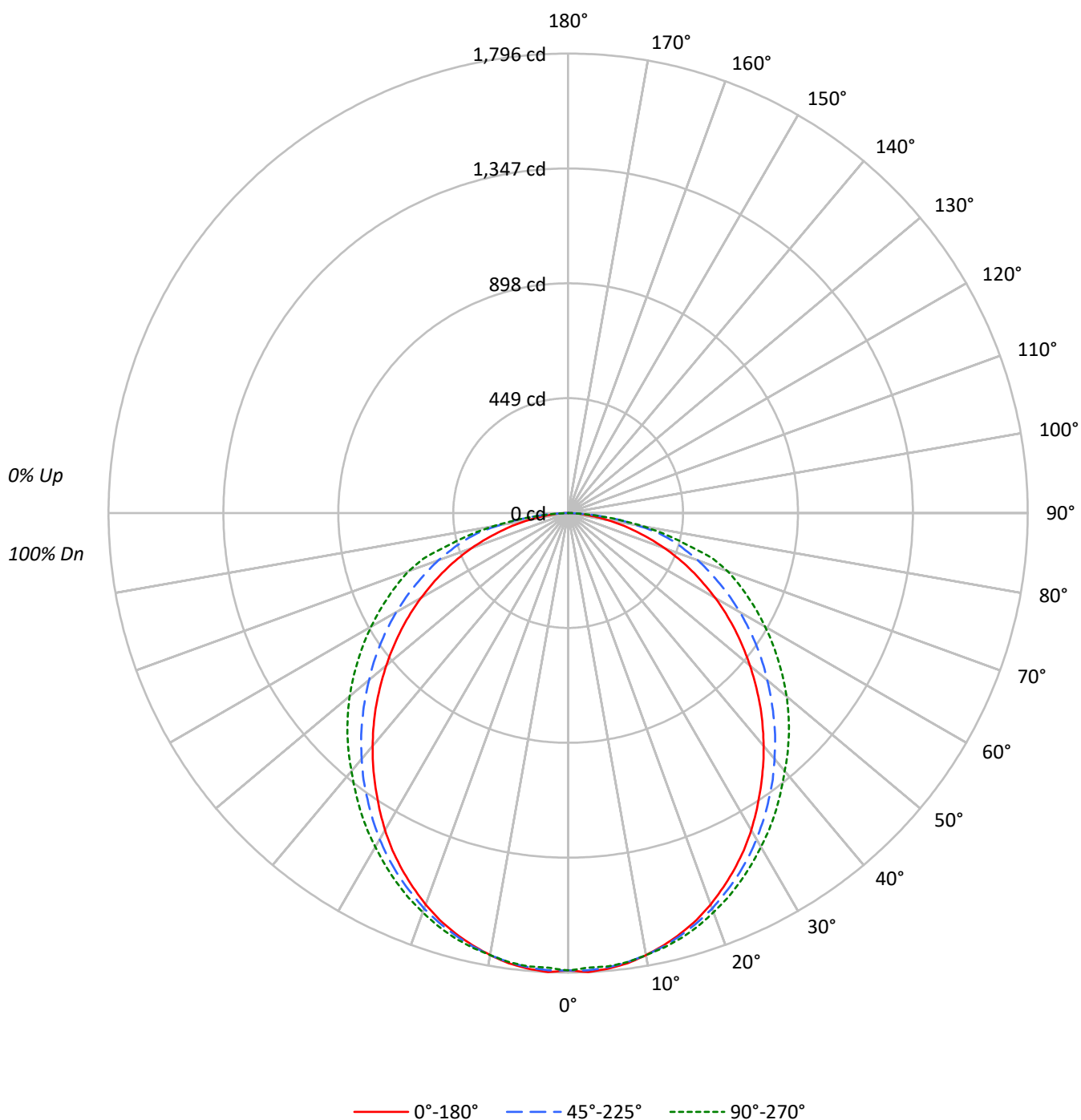
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2405	2405	2405
5°	2409	2396	2392
10°	2386	2375	2376
15°	2353	2345	2362
20°	2310	2311	2336
25°	2255	2268	2307
30°	2191	2220	2276
35°	2117	2165	2249
40°	2045	2109	2220
45°	1969	2054	2211
50°	1885	1999	2201
55°	1803	1954	2193
60°	1714	1910	2202
65°	1610	1870	2229
70°	1478	1848	2292
75°	1291	1840	2107
80°	1057	1618	1786
85°	728	1048	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.3
10°-20°	481.1	9.5
20°-30°	719.1	14.1
30°-40°	852.7	16.8
40°-50°	876.9	17.2
50°-60°	802.1	15.8
60°-70°	646.9	12.7
70°-80°	420.0	8.3
80°-90°	118.2	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°	1369.2	26.9
0°-40°	2221.9	43.7
0°-60°	3900.9	76.7
0°-90°	5086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1787	1775	1782	1779	1779	170
15°	1701	1692	1708	1715	1718	479
25°	1536	1536	1566	1578	1590	707
35°	1312	1324	1367	1394	1417	821
45°	1061	1080	1137	1189	1220	817
55°	796	822	896	967	1002	712
65°	533	564	654	739	775	527
75°	272	322	424	476	481	290
85°	61	100	109	107	104	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.3	1787.3	1787.3	1787.3	1787.3
2.5°	1795.9	1782.1	1789.0	1785.5	1778.6
5°	1787.3	1775.2	1782.1	1778.6	1778.6
7.5°	1775.2	1763.0	1770.0	1770.0	1770.0
10°	1754.4	1744.0	1754.4	1754.4	1754.4
12.5°	1730.2	1721.5	1733.6	1735.4	1738.8
15°	1700.8	1692.1	1707.7	1714.6	1718.1
17.5°	1667.9	1661.0	1678.3	1686.9	1692.1
20°	1628.1	1622.9	1645.4	1654.0	1661.0
22.5°	1583.1	1583.1	1605.6	1616.0	1628.1
25°	1536.4	1536.4	1565.8	1577.9	1590.0
27.5°	1486.2	1487.9	1520.8	1538.1	1550.2
30°	1430.9	1437.8	1472.4	1493.1	1507.0
32.5°	1372.0	1380.7	1420.5	1446.4	1463.7
35°	1311.5	1323.6	1366.8	1394.5	1417.0
37.5°	1250.9	1266.5	1313.2	1344.3	1366.8
40°	1188.6	1205.9	1254.4	1290.7	1316.7
42.5°	1124.6	1143.6	1197.3	1238.8	1269.9
45°	1060.6	1079.6	1136.7	1188.6	1219.8
47.5°	993.1	1015.6	1076.2	1136.7	1167.9
50°	927.4	951.6	1015.6	1081.4	1114.2
52.5°	861.6	889.3	956.8	1026.0	1058.9
55°	795.9	821.8	896.2	967.2	1001.8
57.5°	730.1	757.8	835.7	910.1	946.4
60°	664.4	693.8	775.1	853.0	889.3
62.5°	596.9	628.1	714.6	795.9	832.2
65°	532.9	564.0	654.0	738.8	775.1
67.5°	467.1	501.8	595.2	681.7	719.8
70°	401.4	439.5	538.1	624.6	662.7
72.5°	335.7	378.9	479.3	565.8	593.4
75°	271.6	321.8	423.9	475.8	481.0
77.5°	212.8	264.7	361.6	382.4	392.7
80°	155.7	212.8	271.6	297.6	295.9
82.5°	103.8	162.6	195.5	199.0	195.5
85°	60.6	100.4	109.0	107.3	103.8
87.5°	26.0	39.8	34.6	29.4	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)