

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-LD5-35-S-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-S-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3563.9 lumens
Efficiency: N/A
Efficacy: 140.8 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

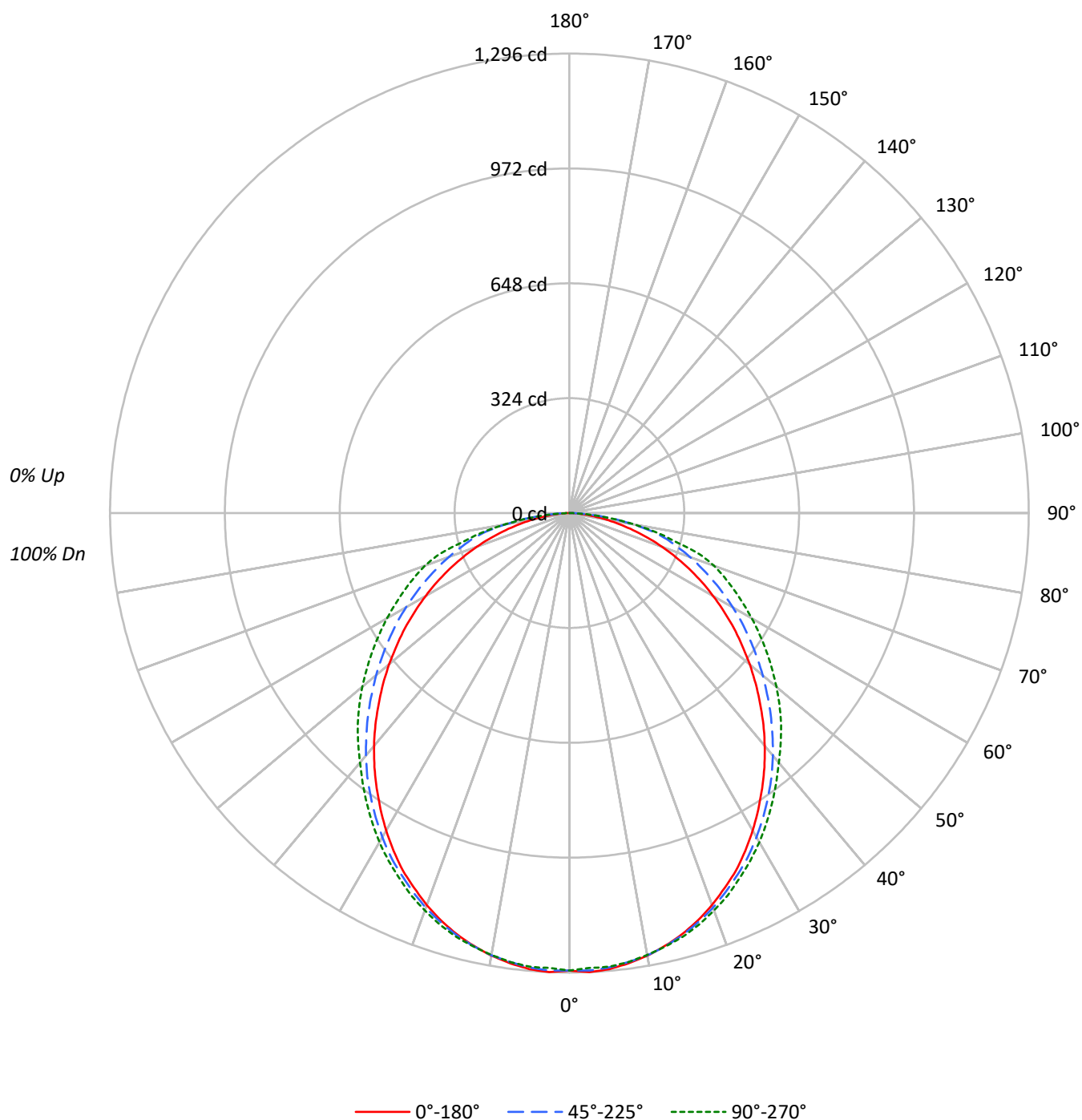
Input Watts (W): 25.32
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50		
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1736	1736	1736
5°	1740	1730	1727
10°	1724	1714	1714
15°	1702	1692	1700
20°	1669	1664	1678
25°	1632	1629	1648
30°	1584	1591	1619
35°	1530	1547	1583
40°	1475	1501	1549
45°	1413	1451	1530
50°	1350	1401	1506
55°	1284	1355	1485
60°	1208	1312	1471
65°	1125	1271	1473
70°	1022	1242	1501
75°	885	1230	1340
80°	708	1073	1117
85°	469	695	652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	3.4
10°-20°	346.9	9.7
20°-30°	517.0	14.5
30°-40°	608.6	17.1
40°-50°	618.5	17.4
50°-60°	556.0	15.6
60°-70°	439.3	12.3
70°-80°	278.7	7.8
80°-90°	76.9	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°	985.9	27.7
0°-40°	1594.5	44.7
0°-60°	2769.0	77.7
0°-90°	3563.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1291	1281	1287	1284	1284	122
15°	1230	1224	1232	1236	1237	346
25°	1112	1111	1124	1131	1136	511
35°	948	953	977	988	997	593
45°	761	772	803	826	844	587
55°	567	581	621	662	678	506
65°	372	391	445	493	512	369
75°	186	218	283	308	306	198
85°	39	68	72	66	66	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.2	1290.2	1290.2	1290.2	1290.2
2.5°	1296.1	1286.6	1291.4	1289.0	1284.3
5°	1291.4	1280.7	1286.6	1284.3	1284.3
7.5°	1280.7	1272.4	1277.1	1276.0	1277.1
10°	1267.7	1259.4	1266.5	1266.5	1265.3
12.5°	1249.9	1242.8	1251.1	1251.1	1252.2
15°	1229.7	1223.8	1232.1	1235.6	1236.8
17.5°	1204.8	1198.9	1209.6	1213.1	1216.7
20°	1176.3	1174.0	1184.7	1188.2	1193.0
22.5°	1144.3	1144.3	1155.0	1159.7	1166.9
25°	1112.3	1111.1	1124.2	1131.3	1136.0
27.5°	1074.4	1075.6	1092.2	1099.3	1105.2
30°	1034.0	1036.4	1055.4	1063.7	1072.0
32.5°	991.4	996.1	1017.4	1026.9	1035.2
35°	947.5	953.4	977.1	987.8	997.3
37.5°	903.6	911.9	936.8	947.5	958.2
40°	857.4	864.5	892.9	906.0	919.0
42.5°	809.9	819.4	847.9	866.8	882.3
45°	761.3	772.0	802.8	826.5	844.3
47.5°	712.7	726.9	756.6	788.6	804.0
50°	664.1	678.3	711.5	747.1	762.5
52.5°	614.3	628.5	666.4	703.2	719.8
55°	566.8	581.1	621.4	661.7	678.3
57.5°	517.0	532.4	577.5	619.0	635.6
60°	468.4	483.8	532.4	576.3	594.1
62.5°	421.0	437.6	488.6	534.8	552.6
65°	372.4	391.3	444.7	493.3	512.3
67.5°	324.9	346.3	402.0	453.0	473.1
70°	277.5	302.4	361.7	413.9	434.0
72.5°	231.2	258.5	321.4	373.5	384.2
75°	186.2	218.2	283.4	308.3	305.9
77.5°	143.5	179.1	240.7	245.5	252.6
80°	104.4	143.5	180.2	189.7	185.0
82.5°	68.8	107.9	129.3	124.5	123.3
85°	39.1	67.6	72.3	66.4	66.4
87.5°	16.6	27.3	23.7	17.8	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)