

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-LD5-45-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-LD5-45-S-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4558.4 lumens
Efficiency: N/A
Efficacy: 127.7 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

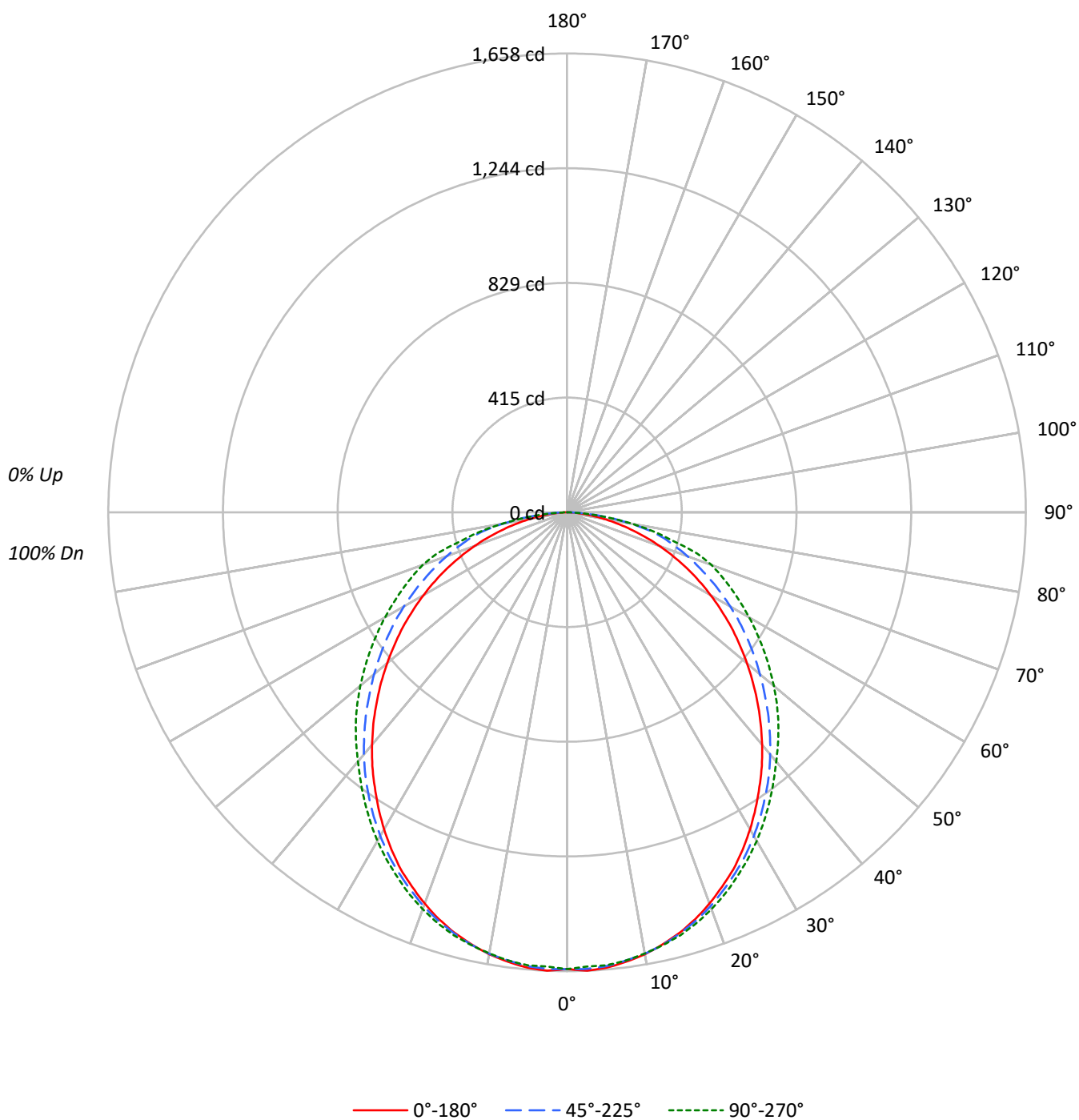
Input Watts (W): 35.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2220	2220	2220
5°	2226	2212	2209
10°	2206	2193	2192
15°	2176	2164	2175
20°	2135	2128	2146
25°	2088	2083	2108
30°	2026	2035	2070
35°	1956	1979	2024
40°	1887	1921	1982
45°	1808	1855	1957
50°	1727	1792	1927
55°	1642	1733	1900
60°	1545	1678	1882
65°	1439	1626	1884
70°	1306	1588	1920
75°	1132	1573	1714
80°	906	1373	1428
85°	602	889	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	3.4
10°-20°	443.7	9.7
20°-30°	661.3	14.5
30°-40°	778.4	17.1
40°-50°	791.0	17.4
50°-60°	711.2	15.6
60°-70°	561.9	12.3
70°-80°	356.5	7.8
80°-90°	98.4	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°	1261.0	27.7
0°-40°	2039.4	44.7
0°-60°	3541.7	77.7
0°-90°	4558.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4558.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1652	1638	1646	1643	1643	157
15°	1573	1565	1576	1580	1582	443
25°	1423	1421	1438	1447	1453	654
35°	1212	1220	1250	1263	1276	758
45°	974	987	1027	1057	1080	751
55°	725	743	795	846	868	647
65°	476	500	569	631	655	472
75°	238	279	362	394	391	253
85°	50	86	92	85	85	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.2	1650.2	1650.2	1650.2	1650.2
2.5°	1657.8	1645.7	1651.7	1648.7	1642.6
5°	1651.7	1638.1	1645.7	1642.6	1642.6
7.5°	1638.1	1627.5	1633.5	1632.0	1633.5
10°	1621.4	1610.8	1619.9	1619.9	1618.4
12.5°	1598.6	1589.5	1600.2	1600.2	1601.7
15°	1572.9	1565.3	1575.9	1580.4	1582.0
17.5°	1541.0	1533.4	1547.1	1551.6	1556.2
20°	1504.6	1501.6	1515.2	1519.8	1525.8
22.5°	1463.7	1463.7	1477.3	1483.4	1492.5
25°	1422.7	1421.2	1437.9	1447.0	1453.0
27.5°	1374.2	1375.7	1396.9	1406.0	1413.6
30°	1322.6	1325.6	1349.9	1360.5	1371.1
32.5°	1268.0	1274.1	1301.4	1313.5	1324.1
35°	1211.9	1219.5	1249.8	1263.4	1275.6
37.5°	1155.8	1166.4	1198.2	1211.9	1225.5
40°	1096.6	1105.7	1142.1	1158.8	1175.5
42.5°	1035.9	1048.1	1084.5	1108.7	1128.5
45°	973.7	987.4	1026.8	1057.2	1079.9
47.5°	911.6	929.8	967.7	1008.6	1028.4
50°	849.4	867.6	910.0	955.5	975.3
52.5°	785.7	803.9	852.4	899.4	920.7
55°	725.0	743.2	794.8	846.3	867.6
57.5°	661.3	681.0	738.7	791.7	813.0
60°	599.1	618.8	681.0	737.1	759.9
62.5°	538.4	559.7	624.9	684.1	706.8
65°	476.3	500.5	568.8	631.0	655.2
67.5°	415.6	442.9	514.2	579.4	605.2
70°	354.9	386.8	462.6	529.3	555.1
72.5°	295.8	330.7	411.0	477.8	491.4
75°	238.1	279.1	362.5	394.4	391.3
77.5°	183.5	229.0	307.9	314.0	323.1
80°	133.5	183.5	230.5	242.7	236.6
82.5°	88.0	138.0	165.3	159.3	157.7
85°	50.1	86.5	92.5	84.9	84.9
87.5°	21.2	34.9	30.3	22.8	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)