

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-LD5-60-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-LD5-60-S-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6221.0 lumens
Efficiency: N/A
Efficacy: 119.2 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

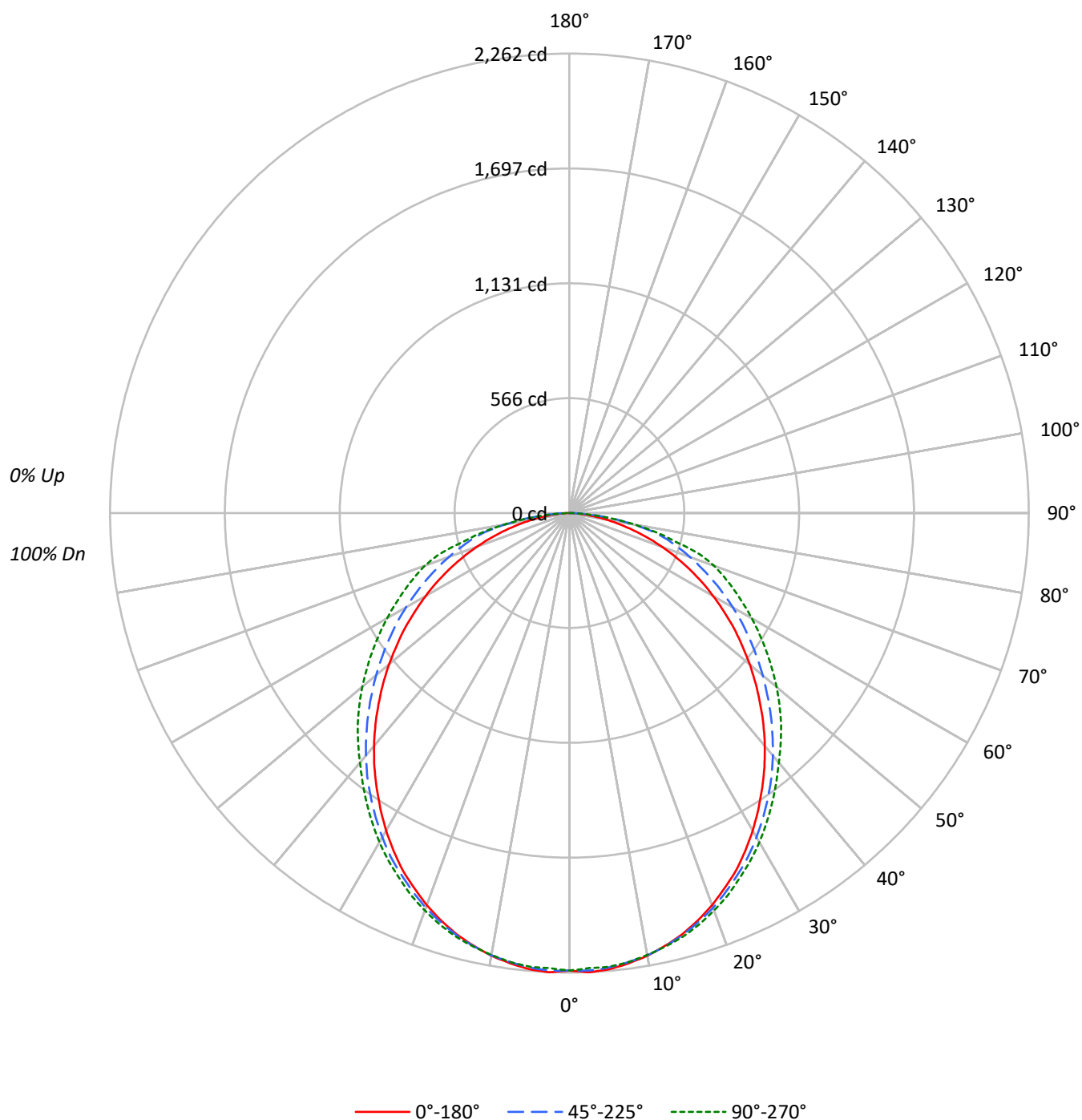
Input Watts (W): 52.17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3030	3030	3030
5°	3038	3019	3015
10°	3010	2992	2991
15°	2970	2954	2968
20°	2914	2905	2928
25°	2849	2843	2877
30°	2764	2777	2826
35°	2670	2701	2763
40°	2575	2621	2704
45°	2467	2532	2671
50°	2356	2445	2629
55°	2241	2365	2592
60°	2109	2291	2568
65°	1964	2219	2571
70°	1783	2168	2620
75°	1545	2147	2339
80°	1236	1874	1949
85°	820	1214	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	3.4
10°-20°	605.6	9.7
20°-30°	902.5	14.5
30°-40°	1062.3	17.1
40°-50°	1079.6	17.4
50°-60°	970.6	15.6
60°-70°	766.8	12.3
70°-80°	486.5	7.8
80°-90°	134.3	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°	1721.0	27.7
0°-40°	2783.3	44.7
0°-60°	4833.5	77.7
0°-90°	6221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2252	2252	2252	2252	2252	
5°	2254	2236	2246	2242	2242	214
15°	2146	2136	2151	2157	2159	605
25°	1942	1940	1962	1975	1983	893
35°	1654	1664	1706	1724	1741	1035
45°	1329	1348	1401	1443	1474	1025
55°	989	1014	1085	1155	1184	884
65°	650	683	776	861	894	644
75°	325	381	495	538	534	346
85°	68	118	126	116	116	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2252.1	2252.1	2252.1	2252.1	2252.1
2.5°	2262.5	2245.9	2254.2	2250.0	2241.8
5°	2254.2	2235.5	2245.9	2241.8	2241.8
7.5°	2235.5	2221.1	2229.3	2227.3	2229.3
10°	2212.8	2198.3	2210.7	2210.7	2208.6
12.5°	2181.7	2169.3	2183.8	2183.8	2185.9
15°	2146.5	2136.2	2150.7	2156.9	2159.0
17.5°	2103.1	2092.7	2111.4	2117.6	2123.8
20°	2053.4	2049.3	2067.9	2074.1	2082.4
22.5°	1997.5	1997.5	2016.1	2024.4	2036.8
25°	1941.6	1939.5	1962.3	1974.7	1983.0
27.5°	1875.4	1877.4	1906.4	1918.8	1929.2
30°	1805.0	1809.1	1842.3	1856.7	1871.2
32.5°	1730.5	1738.8	1776.0	1792.6	1807.1
35°	1653.9	1664.2	1705.6	1724.3	1740.8
37.5°	1577.3	1591.8	1635.3	1653.9	1672.5
40°	1496.6	1509.0	1558.7	1581.4	1604.2
42.5°	1413.8	1430.3	1480.0	1513.1	1540.0
45°	1328.9	1347.5	1401.4	1442.8	1473.8
47.5°	1244.0	1268.9	1320.6	1376.5	1403.4
50°	1159.2	1184.0	1242.0	1304.1	1331.0
52.5°	1072.2	1097.1	1163.3	1227.5	1256.5
55°	989.4	1014.3	1084.7	1155.0	1184.0
57.5°	902.5	929.4	1008.1	1080.5	1109.5
60°	817.6	844.5	929.4	1006.0	1037.0
62.5°	734.8	763.8	852.8	933.5	964.6
65°	650.0	683.1	776.2	861.1	894.2
67.5°	567.2	604.4	701.7	790.7	825.9
70°	484.4	527.8	631.3	722.4	757.6
72.5°	403.6	451.2	561.0	652.0	670.7
75°	325.0	380.9	494.7	538.2	534.0
77.5°	250.5	312.6	420.2	428.5	440.9
80°	182.2	250.5	314.6	331.2	322.9
82.5°	120.1	188.4	225.6	217.3	215.3
85°	68.3	118.0	126.3	115.9	115.9
87.5°	29.0	47.6	41.4	31.0	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)