

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-LD5-70-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-LD5-70-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

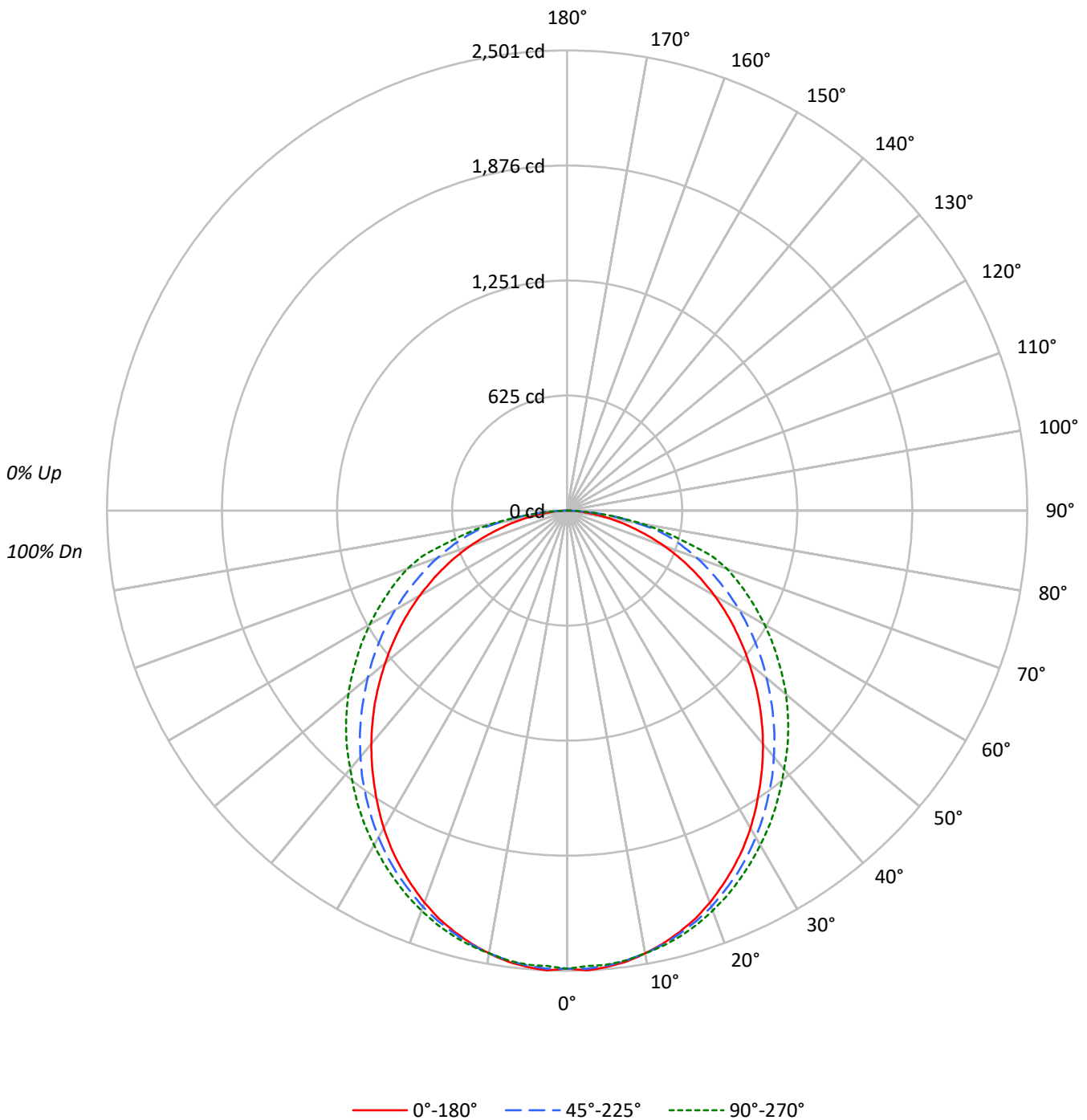
Lumens per Lamp: N/A
Luminaire Lumens: 7084.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 64.22
Input Voltage (V): NR
Input Current (A_{in}): 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	0		
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°	3349	3349	3349
5°	3355	3337	3331
10°	3324	3308	3309
15°	3278	3267	3289
20°	3218	3219	3253
25°	3140	3160	3213
30°	3052	3092	3170
35°	2949	3015	3132
40°	2848	2938	3091
45°	2742	2861	3079
50°	2626	2785	3066
55°	2511	2722	3055
60°	2387	2661	3068
65°	2243	2604	3104
70°	2058	2574	3192
75°	1799	2562	2935
80°	1472	2253	2488
85°	1012	1459	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	3.3
10°-20°	670.0	9.5
20°-30°	1001.6	14.1
30°-40°	1187.7	16.8
40°-50°	1221.4	17.2
50°-60°	1117.2	15.8
60°-70°	901.1	12.7
70°-80°	585.0	8.3
80°-90°	164.6	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°	1907.0	26.9
0°-40°	3094.7	43.7
0°-60°	5433.3	76.7
0°-90°	7084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2489	2489	2489	2489	2489	
5°	2489	2472	2482	2477	2477	236
15°	2369	2357	2378	2388	2393	668
25°	2140	2140	2181	2198	2215	985
35°	1827	1844	1904	1942	1974	1143
45°	1477	1504	1583	1656	1699	1139
55°	1108	1145	1248	1347	1395	991
65°	742	786	911	1029	1080	734
75°	378	448	590	663	670	403
85°	84	140	152	149	145	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2489.4	2489.4	2489.4	2489.4	2489.4
2.5°	2501.4	2482.2	2491.8	2487.0	2477.3
5°	2489.4	2472.5	2482.2	2477.3	2477.3
7.5°	2472.5	2455.6	2465.3	2465.3	2465.3
10°	2443.6	2429.1	2443.6	2443.6	2443.6
12.5°	2409.9	2397.8	2414.7	2417.1	2421.9
15°	2368.9	2356.8	2378.5	2388.2	2393.0
17.5°	2323.1	2313.5	2337.6	2349.6	2356.8
20°	2267.7	2260.4	2291.8	2303.8	2313.5
22.5°	2205.0	2205.0	2236.4	2250.8	2267.7
25°	2140.0	2140.0	2180.9	2197.8	2214.7
27.5°	2070.1	2072.5	2118.3	2142.4	2159.2
30°	1993.0	2002.6	2050.8	2079.7	2099.0
32.5°	1911.0	1923.1	1978.5	2014.6	2038.7
35°	1826.7	1843.5	1903.8	1942.3	1973.7
37.5°	1742.3	1764.0	1829.1	1872.5	1903.8
40°	1655.6	1679.7	1747.1	1797.8	1833.9
42.5°	1566.4	1592.9	1667.6	1725.5	1768.8
45°	1477.2	1503.8	1583.3	1655.6	1699.0
47.5°	1383.3	1414.6	1498.9	1583.3	1626.7
50°	1291.7	1325.4	1414.6	1506.2	1552.0
52.5°	1200.1	1238.7	1332.7	1429.0	1474.8
55°	1108.5	1144.7	1248.3	1347.1	1395.3
57.5°	1017.0	1055.5	1164.0	1267.6	1318.2
60°	925.4	966.4	1079.6	1188.1	1238.7
62.5°	831.4	874.8	995.3	1108.5	1159.1
65°	742.2	785.6	910.9	1029.0	1079.6
67.5°	650.7	698.9	829.0	949.5	1002.5
70°	559.1	612.1	749.5	870.0	923.0
72.5°	467.5	527.8	667.5	788.0	826.6
75°	378.3	448.2	590.4	662.7	669.9
77.5°	296.4	368.7	503.7	532.6	547.0
80°	216.9	296.4	378.3	414.5	412.1
82.5°	144.6	226.5	272.3	277.1	272.3
85°	84.3	139.8	151.8	149.4	144.6
87.5°	36.1	55.4	48.2	41.0	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)