

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-L840-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-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

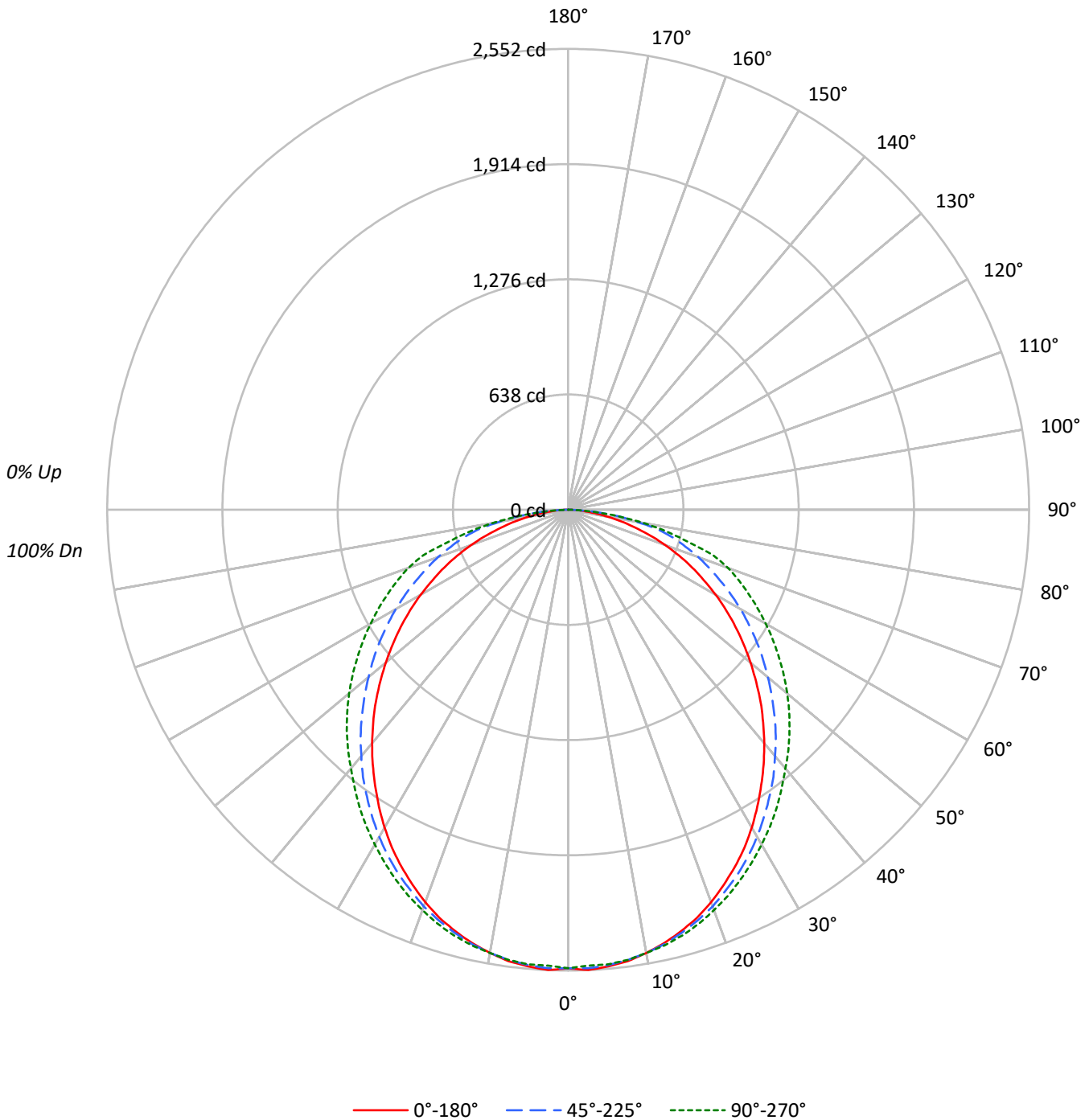
Lumens per Lamp: N/A
Luminaire Lumens: 7225.7 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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°	3416	3416	3416
5°	3422	3404	3398
10°	3390	3374	3376
15°	3343	3332	3355
20°	3282	3284	3318
25°	3203	3223	3277
30°	3113	3153	3233
35°	3008	3075	3195
40°	2905	2997	3153
45°	2797	2918	3140
50°	2678	2841	3127
55°	2561	2777	3116
60°	2435	2714	3129
65°	2288	2656	3166
70°	2099	2625	3256
75°	1835	2613	2994
80°	1501	2299	2537
85°	1033	1489	1449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	3.3
10°-20°	683.4	9.5
20°-30°	1021.6	14.1
30°-40°	1211.4	16.8
40°-50°	1245.8	17.2
50°-60°	1139.6	15.8
60°-70°	919.1	12.7
70°-80°	596.7	8.3
80°-90°	167.9	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°	1945.2	26.9
0°-40°	3156.6	43.7
0°-60°	5542.0	76.7
0°-90°	7225.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7225.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2539	2539	2539	2539	2539	
5°	2539	2522	2532	2527	2527	241
15°	2416	2404	2426	2436	2441	681
25°	2183	2183	2224	2242	2259	1005
35°	1863	1880	1942	1981	2013	1166
45°	1507	1534	1615	1689	1733	1161
55°	1131	1168	1273	1374	1423	1011
65°	757	801	929	1050	1101	749
75°	386	457	602	676	683	411
85°	86	143	155	152	148	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.2	2539.2	2539.2	2539.2	2539.2
2.5°	2551.5	2531.8	2541.6	2536.7	2526.9
5°	2539.2	2522.0	2531.8	2526.9	2526.9
7.5°	2522.0	2504.8	2514.6	2514.6	2514.6
10°	2492.5	2477.7	2492.5	2492.5	2492.5
12.5°	2458.1	2445.8	2463.0	2465.4	2470.3
15°	2416.3	2404.0	2426.1	2435.9	2440.9
17.5°	2369.6	2359.7	2384.3	2396.6	2404.0
20°	2313.0	2305.7	2337.6	2349.9	2359.7
22.5°	2249.1	2249.1	2281.1	2295.8	2313.0
25°	2182.8	2182.8	2224.5	2241.7	2259.0
27.5°	2111.5	2113.9	2160.6	2185.2	2202.4
30°	2032.8	2042.6	2091.8	2121.3	2141.0
32.5°	1949.2	1961.5	2018.1	2054.9	2079.5
35°	1863.2	1880.4	1941.9	1981.2	2013.1
37.5°	1777.2	1799.3	1865.7	1909.9	1941.9
40°	1688.7	1713.3	1782.1	1833.7	1870.6
42.5°	1597.7	1624.8	1701.0	1760.0	1804.2
45°	1506.8	1533.8	1614.9	1688.7	1732.9
47.5°	1410.9	1442.9	1528.9	1614.9	1659.2
50°	1317.5	1351.9	1442.9	1536.3	1583.0
52.5°	1224.1	1263.4	1359.3	1457.6	1504.3
55°	1130.7	1167.6	1273.3	1374.1	1423.2
57.5°	1037.3	1076.6	1187.2	1292.9	1344.6
60°	943.9	985.7	1101.2	1211.8	1263.4
62.5°	848.0	892.3	1015.2	1130.7	1182.3
65°	757.1	801.3	929.1	1049.6	1101.2
67.5°	663.7	712.8	845.6	968.5	1022.6
70°	570.3	624.3	764.5	887.4	941.4
72.5°	476.9	538.3	680.9	803.8	843.1
75°	385.9	457.2	602.2	676.0	683.3
77.5°	302.3	376.1	513.7	543.2	558.0
80°	221.2	302.3	385.9	422.8	420.3
82.5°	147.5	231.1	277.8	282.7	277.8
85°	86.0	142.6	154.9	152.4	147.5
87.5°	36.9	56.5	49.2	41.8	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)