

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-LD5-75-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-LD5-75-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

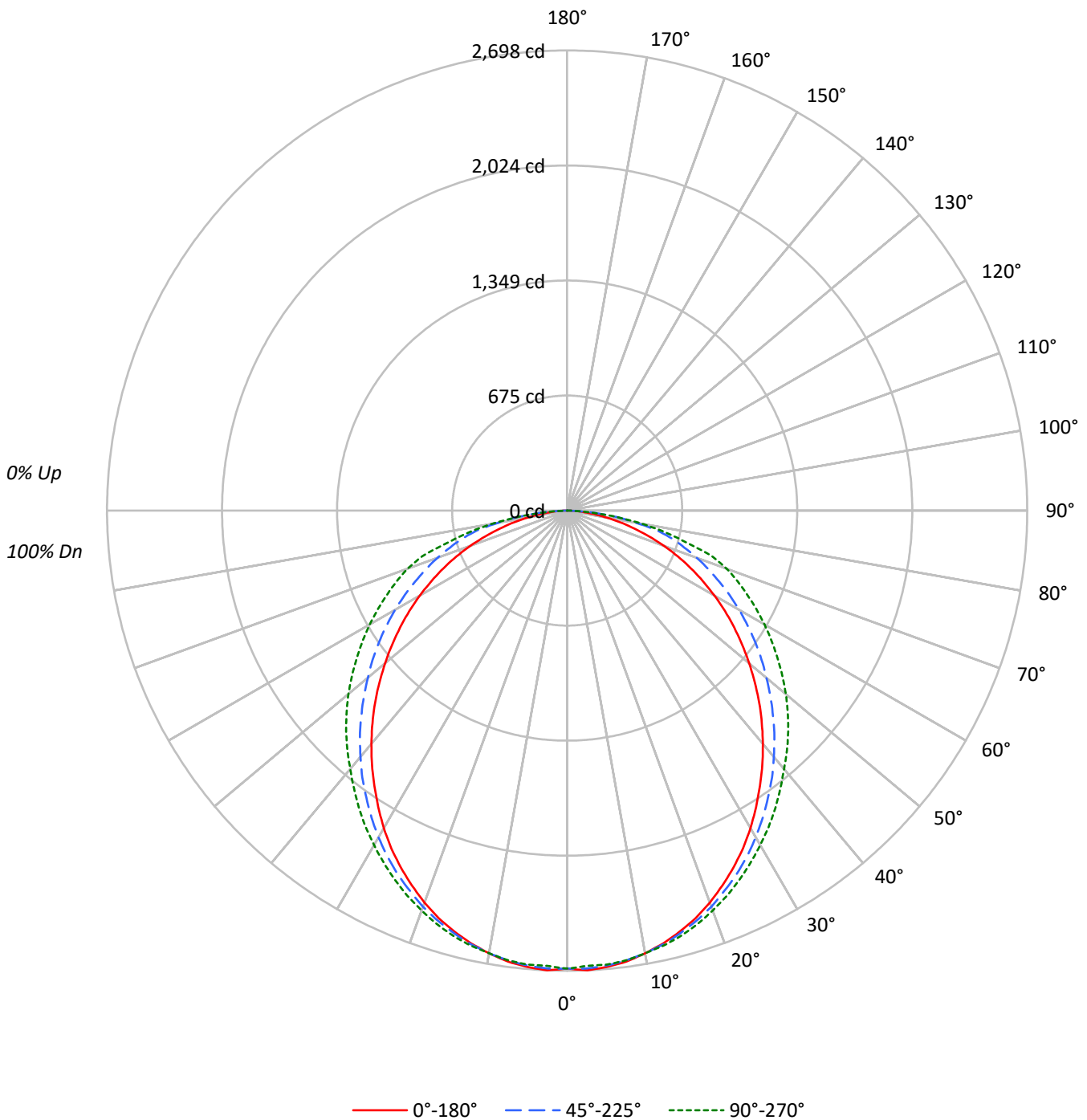
Lumens per Lamp: N/A
Luminaire Lumens: 7640.8 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 69.06
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°	3613	3613	3613
5°	3619	3599	3593
10°	3585	3568	3570
15°	3535	3524	3548
20°	3471	3472	3509
25°	3387	3408	3465
30°	3292	3335	3419
35°	3181	3252	3378
40°	3072	3169	3334
45°	2958	3086	3321
50°	2832	3004	3307
55°	2708	2936	3295
60°	2574	2870	3309
65°	2419	2809	3348
70°	2220	2776	3443
75°	1940	2763	3166
80°	1587	2431	2683
85°	1093	1574	1532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	3.3
10°-20°	722.7	9.5
20°-30°	1080.3	14.1
30°-40°	1281.0	16.8
40°-50°	1317.4	17.2
50°-60°	1205.0	15.8
60°-70°	971.9	12.7
70°-80°	631.0	8.3
80°-90°	177.6	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°	2056.9	26.9
0°-40°	3338.0	43.7
0°-60°	5860.4	76.7
0°-90°	7640.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7640.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2685	2685	2685	2685	2685	
5°	2685	2667	2677	2672	2672	255
15°	2555	2542	2566	2576	2581	720
25°	2308	2308	2352	2370	2389	1063
35°	1970	1988	2053	2095	2129	1233
45°	1593	1622	1708	1786	1832	1228
55°	1196	1235	1346	1453	1505	1069
65°	801	847	982	1110	1164	792
75°	408	484	637	715	723	435
85°	91	151	164	161	156	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2685.1	2685.1	2685.1	2685.1	2685.1
2.5°	2698.1	2677.3	2687.7	2682.5	2672.1
5°	2685.1	2666.9	2677.3	2672.1	2672.1
7.5°	2666.9	2648.7	2659.1	2659.1	2659.1
10°	2635.7	2620.1	2635.7	2635.7	2635.7
12.5°	2599.3	2586.3	2604.5	2607.1	2612.3
15°	2555.1	2542.1	2565.5	2575.9	2581.1
17.5°	2505.7	2495.3	2521.3	2534.3	2542.1
20°	2445.9	2438.1	2471.9	2484.9	2495.3
22.5°	2378.3	2378.3	2412.1	2427.7	2445.9
25°	2308.2	2308.2	2352.4	2370.5	2388.7
27.5°	2232.8	2235.4	2284.8	2310.8	2329.0
30°	2149.6	2160.0	2212.0	2243.2	2264.0
32.5°	2061.2	2074.2	2134.0	2173.0	2199.0
35°	1970.3	1988.5	2053.4	2095.0	2128.8
37.5°	1879.3	1902.7	1972.9	2019.6	2053.4
40°	1785.7	1811.7	1884.5	1939.1	1978.1
42.5°	1689.5	1718.1	1798.7	1861.1	1907.9
45°	1593.4	1622.0	1707.7	1785.7	1832.5
47.5°	1492.0	1525.8	1616.8	1707.7	1754.5
50°	1393.2	1429.6	1525.8	1624.6	1673.9
52.5°	1294.4	1336.0	1437.4	1541.4	1590.8
55°	1195.7	1234.7	1346.4	1453.0	1505.0
57.5°	1096.9	1138.5	1255.5	1367.2	1421.8
60°	998.1	1042.3	1164.5	1281.4	1336.0
62.5°	896.8	943.5	1073.5	1195.7	1250.3
65°	800.6	847.4	982.5	1109.9	1164.5
67.5°	701.8	753.8	894.2	1024.1	1081.3
70°	603.0	660.2	808.4	938.3	995.5
72.5°	504.3	569.2	720.0	850.0	891.6
75°	408.1	483.5	636.8	714.8	722.6
77.5°	319.7	397.7	543.2	574.4	590.0
80°	233.9	319.7	408.1	447.1	444.5
82.5°	156.0	244.3	293.7	298.9	293.7
85°	91.0	150.8	163.8	161.2	156.0
87.5°	39.0	59.8	52.0	44.2	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)