

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-S-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-S-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7370.2 lumens
Efficiency: N/A
Efficacy: 114.8 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

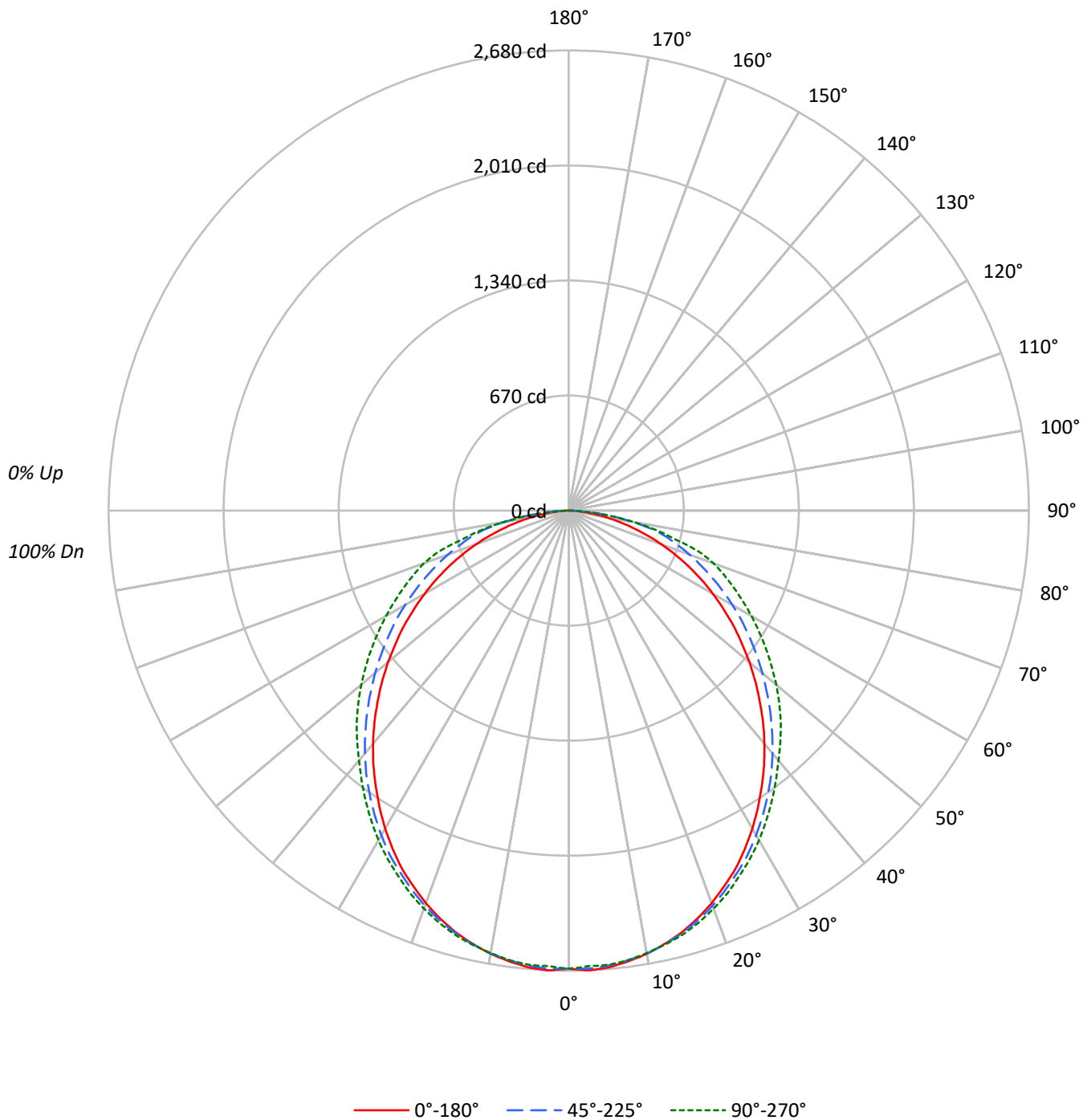
Input Watts (W): 64.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3590	3590	3590
5°	3599	3577	3572
10°	3566	3545	3544
15°	3519	3500	3516
20°	3452	3441	3469
25°	3376	3368	3408
30°	3275	3290	3348
35°	3163	3200	3273
40°	3050	3105	3204
45°	2923	3000	3164
50°	2791	2897	3115
55°	2655	2802	3071
60°	2499	2714	3043
65°	2327	2629	3046
70°	2112	2568	3105
75°	1831	2543	2772
80°	1464	2221	2310
85°	971	1438	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	3.4
10°-20°	717.4	9.7
20°-30°	1069.2	14.5
30°-40°	1258.6	17.1
40°-50°	1279.0	17.4
50°-60°	1149.9	15.6
60°-70°	908.4	12.3
70°-80°	576.3	7.8
80°-90°	159.1	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°	2038.9	27.7
0°-40°	3297.4	44.7
0°-60°	5726.3	77.7
0°-90°	7370.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7370.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2671	2648	2661	2656	2656	253
15°	2543	2531	2548	2555	2558	716
25°	2300	2298	2325	2340	2349	1058
35°	1959	1972	2021	2043	2062	1226
45°	1574	1596	1660	1709	1746	1215
55°	1172	1202	1285	1368	1403	1047
65°	770	809	920	1020	1059	763
75°	385	451	586	638	633	410
85°	81	140	150	137	137	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2668.1	2668.1	2668.1	2668.1	2668.1
2.5°	2680.4	2660.8	2670.6	2665.7	2655.9
5°	2670.6	2648.5	2660.8	2655.9	2655.9
7.5°	2648.5	2631.4	2641.2	2638.7	2641.2
10°	2621.6	2604.4	2619.1	2619.1	2616.6
12.5°	2584.8	2570.1	2587.2	2587.2	2589.7
15°	2543.1	2530.8	2548.0	2555.3	2557.8
17.5°	2491.6	2479.3	2501.4	2508.7	2516.1
20°	2432.7	2427.8	2449.9	2457.2	2467.1
22.5°	2366.5	2366.5	2388.6	2398.4	2413.1
25°	2300.3	2297.8	2324.8	2339.5	2349.3
27.5°	2221.8	2224.3	2258.6	2273.3	2285.6
30°	2138.4	2143.3	2182.6	2199.7	2216.9
32.5°	2050.2	2060.0	2104.1	2123.7	2140.9
35°	1959.4	1971.7	2020.7	2042.8	2062.4
37.5°	1868.7	1885.8	1937.3	1959.4	1981.5
40°	1773.0	1787.8	1846.6	1873.6	1900.6
42.5°	1674.9	1694.6	1753.4	1792.7	1824.5
45°	1574.4	1596.5	1660.2	1709.3	1746.1
47.5°	1473.9	1503.3	1564.6	1630.8	1662.7
50°	1373.3	1402.7	1471.4	1545.0	1576.9
52.5°	1270.3	1299.7	1378.2	1454.2	1488.6
55°	1172.2	1201.6	1285.0	1368.4	1402.7
57.5°	1069.2	1101.1	1194.3	1280.1	1314.5
60°	968.7	1000.6	1101.1	1191.8	1228.6
62.5°	870.6	904.9	1010.4	1106.0	1142.8
65°	770.0	809.3	919.6	1020.2	1059.4
67.5°	671.9	716.1	831.3	936.8	978.5
70°	573.8	625.3	748.0	855.9	897.6
72.5°	478.2	534.6	664.6	772.5	794.6
75°	385.0	451.2	586.1	637.6	632.7
77.5°	296.7	370.3	497.8	507.6	522.3
80°	215.8	296.7	372.8	392.4	382.6
82.5°	142.2	223.2	267.3	257.5	255.0
85°	80.9	139.8	149.6	137.3	137.3
87.5°	34.3	56.4	49.0	36.8	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)