

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: P261020

Luminaire Tested: **24CZ-LD5-75-S-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261020
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-LD5-75-S-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8150.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

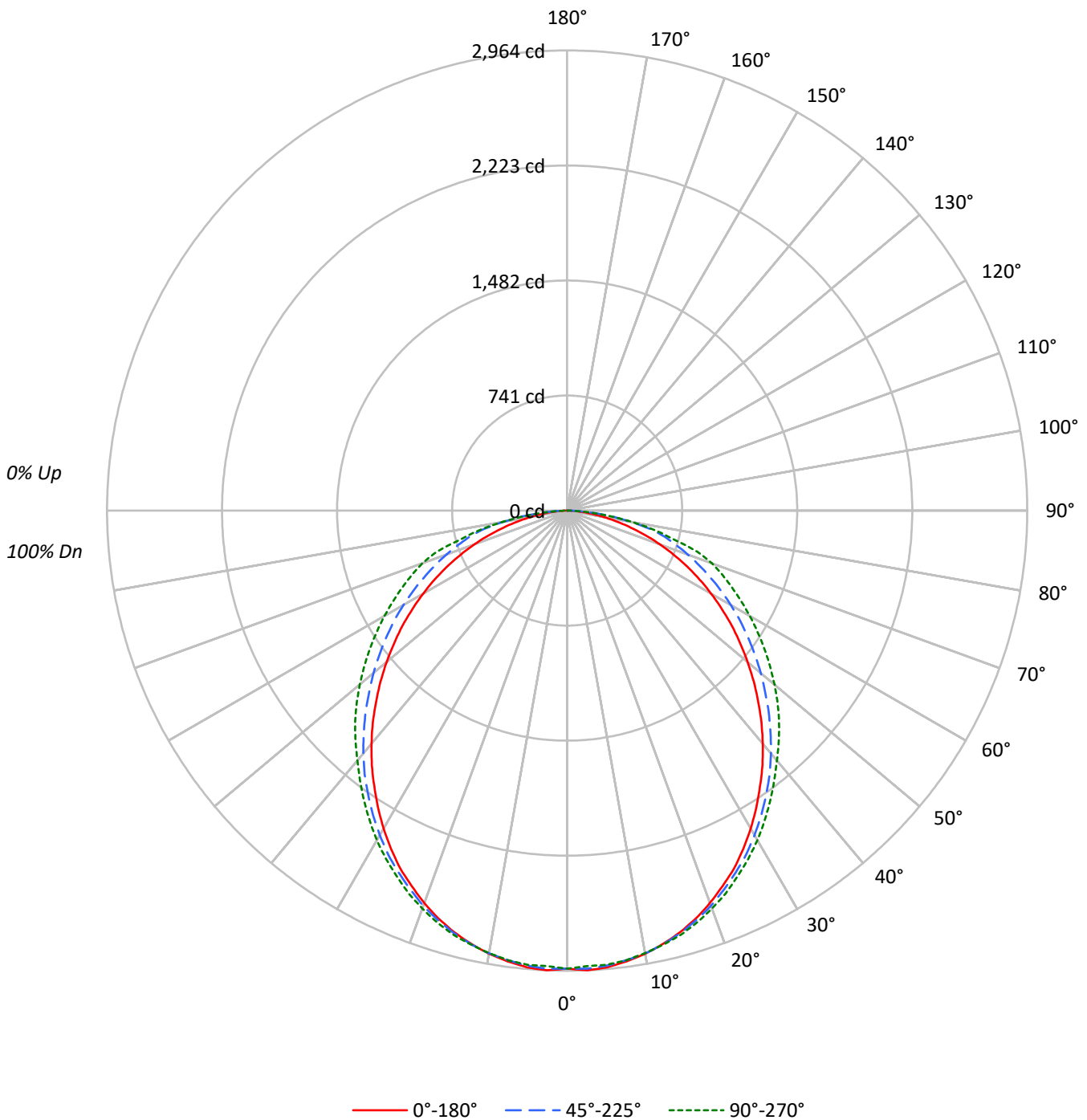
Input Watts (W): 61.265796
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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°	3970	3970	3970
5°	3989	3974	3967
10°	3961	3957	3953
15°	3917	3925	3940
20°	3852	3879	3906
25°	3776	3817	3857
30°	3674	3750	3809
35°	3559	3670	3746
40°	3444	3587	3691
45°	3313	3493	3674
50°	3179	3406	3650
55°	3041	3333	3639
60°	2883	3277	3656
65°	2711	3238	3730
70°	2496	3254	3904
75°	2214	3369	3637
80°	1849	3194	3278
85°	1382	2553	2345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	3.4
10°-20°	793.3	9.7
20°-30°	1182.3	14.5
30°-40°	1391.7	17.1
40°-50°	1414.3	17.4
50°-60°	1271.6	15.6
60°-70°	1004.6	12.3
70°-80°	637.3	7.8
80°-90°	175.9	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°	2254.6	27.7
0°-40°	3646.3	44.7
0°-60°	6332.2	77.7
0°-90°	8150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2950	2950	2950	2950	2950	
5°	2953	2929	2942	2937	2937	280
15°	2812	2799	2818	2826	2828	792
25°	2544	2541	2571	2587	2598	1170
35°	2167	2180	2234	2259	2281	1356
45°	1741	1765	1836	1890	1931	1343
55°	1296	1329	1421	1513	1551	1158
65°	852	895	1017	1128	1172	843
75°	426	499	648	705	700	453
85°	90	155	165	152	152	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2950.4	2950.4	2950.4	2950.4	2950.4
2.5°	2964.0	2942.3	2953.2	2947.7	2936.9
5°	2953.2	2928.8	2942.3	2936.9	2936.9
7.5°	2928.8	2909.8	2920.6	2917.9	2920.6
10°	2898.9	2879.9	2896.2	2896.2	2893.5
12.5°	2858.2	2842.0	2861.0	2861.0	2863.7
15°	2812.1	2798.6	2817.6	2825.7	2828.4
17.5°	2755.2	2741.6	2766.0	2774.2	2782.3
20°	2690.1	2684.7	2709.1	2717.2	2728.1
22.5°	2616.9	2616.9	2641.3	2652.2	2668.4
25°	2543.7	2541.0	2570.8	2587.1	2597.9
27.5°	2456.9	2459.6	2497.6	2513.8	2527.4
30°	2364.7	2370.1	2413.5	2432.5	2451.5
32.5°	2267.1	2277.9	2326.7	2348.4	2367.4
35°	2166.7	2180.3	2234.5	2258.9	2280.6
37.5°	2066.4	2085.4	2142.3	2166.7	2191.1
40°	1960.6	1976.9	2042.0	2071.8	2101.7
42.5°	1852.2	1873.9	1938.9	1982.3	2017.6
45°	1741.0	1765.4	1835.9	1890.1	1930.8
47.5°	1629.8	1662.3	1730.1	1803.4	1838.6
50°	1518.6	1551.2	1627.1	1708.4	1743.7
52.5°	1404.7	1437.3	1524.0	1608.1	1646.1
55°	1296.2	1328.8	1421.0	1513.2	1551.2
57.5°	1182.3	1217.6	1320.7	1415.6	1453.5
60°	1071.2	1106.4	1217.6	1317.9	1358.6
62.5°	962.7	1000.7	1117.3	1223.0	1263.7
65°	851.5	894.9	1016.9	1128.1	1171.5
67.5°	743.0	791.8	919.3	1035.9	1082.0
70°	634.6	691.5	827.1	946.4	992.5
72.5°	528.8	591.2	734.9	854.2	878.6
75°	425.8	499.0	648.1	705.1	699.6
77.5°	328.1	409.5	550.5	561.3	577.6
80°	238.6	328.1	412.2	433.9	423.0
82.5°	157.3	246.8	295.6	284.7	282.0
85°	89.5	154.6	165.4	151.9	151.9
87.5°	38.0	62.4	54.2	40.7	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)