

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: P261203

Luminaire Tested: **24CZ-LD5-75-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261203
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-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7055.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

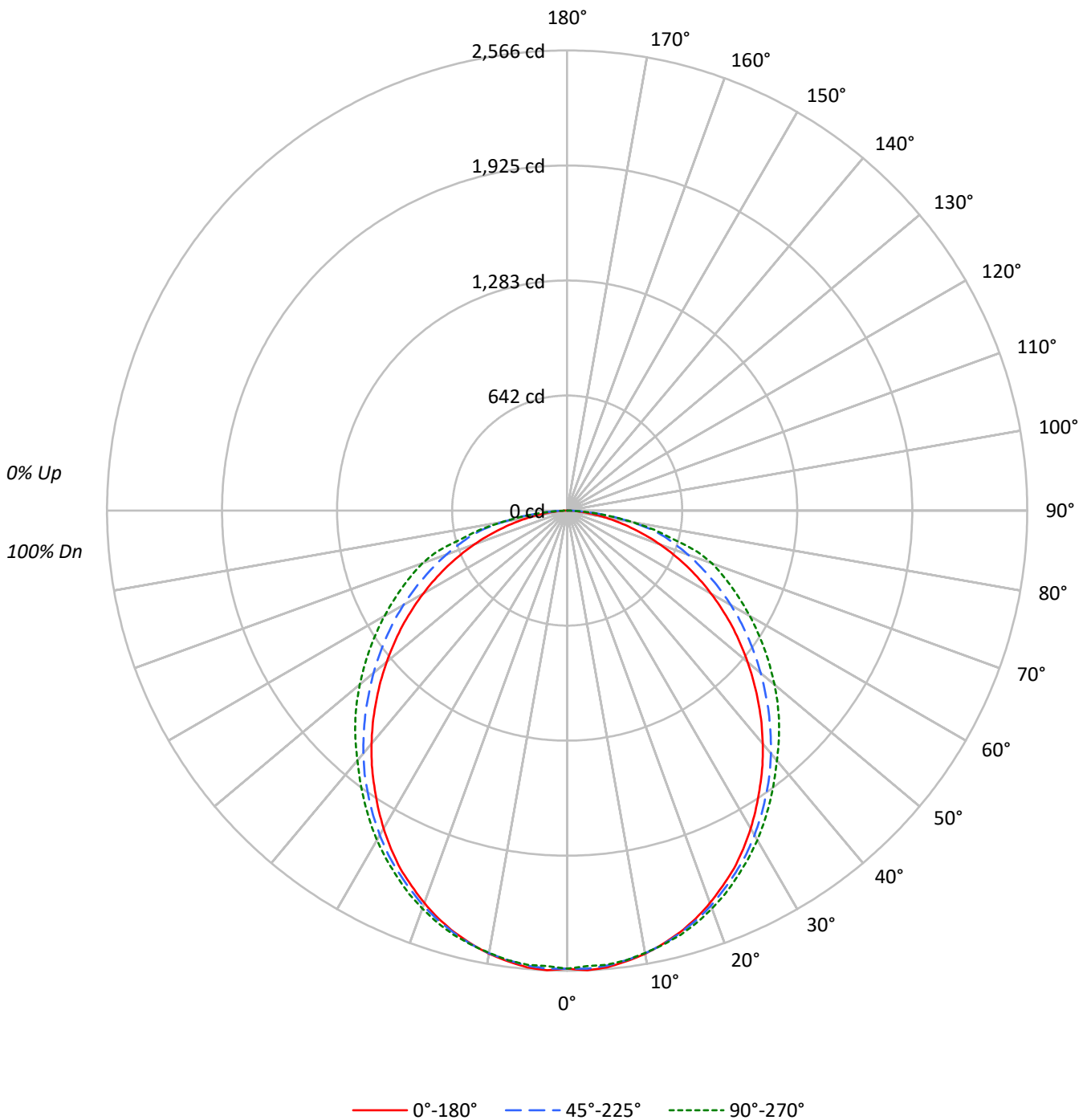
Input Watts (W): 58.404
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3436	3436	3436
5°	3453	3440	3434
10°	3428	3425	3422
15°	3391	3397	3411
20°	3334	3358	3381
25°	3269	3304	3339
30°	3180	3246	3297
35°	3081	3177	3243
40°	2981	3105	3195
45°	2868	3024	3180
50°	2752	2948	3159
55°	2632	2886	3150
60°	2495	2836	3165
65°	2347	2803	3229
70°	2161	2817	3380
75°	1916	2916	3148
80°	1601	2765	2837
85°	1196	2211	2030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	3.4
10°-20°	686.8	9.7
20°-30°	1023.4	14.5
30°-40°	1204.8	17.1
40°-50°	1224.3	17.4
50°-60°	1100.7	15.6
60°-70°	869.6	12.3
70°-80°	551.7	7.8
80°-90°	152.3	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°	1951.7	27.7
0°-40°	3156.4	44.7
0°-60°	5481.5	77.7
0°-90°	7055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2554	2554	2554	2554	2554	
5°	2556	2535	2547	2542	2542	242
15°	2434	2423	2439	2446	2448	686
25°	2202	2200	2225	2240	2249	1012
35°	1876	1887	1934	1955	1974	1173
45°	1507	1528	1589	1636	1671	1163
55°	1122	1150	1230	1310	1343	1002
65°	737	775	880	976	1014	730
75°	369	432	561	610	606	392
85°	78	134	143	132	132	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2554.0	2554.0	2554.0	2554.0	2554.0
2.5°	2565.8	2547.0	2556.4	2551.7	2542.3
5°	2556.4	2535.3	2547.0	2542.3	2542.3
7.5°	2535.3	2518.8	2528.2	2525.9	2528.2
10°	2509.4	2493.0	2507.1	2507.1	2504.7
12.5°	2474.2	2460.1	2476.6	2476.6	2478.9
15°	2434.3	2422.6	2439.0	2446.1	2448.4
17.5°	2385.0	2373.3	2394.4	2401.5	2408.5
20°	2328.7	2324.0	2345.1	2352.2	2361.5
22.5°	2265.3	2265.3	2286.4	2295.8	2309.9
25°	2201.9	2199.6	2225.4	2239.5	2248.9
27.5°	2126.8	2129.1	2162.0	2176.1	2187.8
30°	2047.0	2051.7	2089.2	2105.7	2122.1
32.5°	1962.5	1971.9	2014.1	2032.9	2049.3
35°	1875.6	1887.4	1934.3	1955.4	1974.2
37.5°	1788.8	1805.2	1854.5	1875.6	1896.8
40°	1697.2	1711.3	1767.6	1793.5	1819.3
42.5°	1603.3	1622.1	1678.4	1716.0	1746.5
45°	1507.1	1528.2	1589.2	1636.2	1671.4
47.5°	1410.8	1439.0	1497.7	1561.1	1591.6
50°	1314.6	1342.7	1408.5	1478.9	1509.4
52.5°	1216.0	1244.2	1319.3	1392.0	1424.9
55°	1122.1	1150.3	1230.1	1309.9	1342.7
57.5°	1023.5	1054.0	1143.2	1225.4	1258.2
60°	927.2	957.8	1054.0	1140.9	1176.1
62.5°	833.3	866.2	967.2	1058.7	1093.9
65°	737.1	774.7	880.3	976.5	1014.1
67.5°	643.2	685.5	795.8	896.7	936.6
70°	549.3	598.6	716.0	819.3	859.2
72.5°	457.8	511.7	636.2	739.5	760.6
75°	368.6	431.9	561.0	610.3	605.6
77.5°	284.0	354.5	476.5	485.9	500.0
80°	206.6	284.0	356.8	375.6	366.2
82.5°	136.2	213.6	255.9	246.5	244.1
85°	77.5	133.8	143.2	131.5	131.5
87.5°	32.9	54.0	46.9	35.2	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)