

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: P261094

Luminaire Tested: **24CZ-LD5-75-S-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261094
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-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7058.3 lumens
Efficiency: N/A
Efficacy: 117.8 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

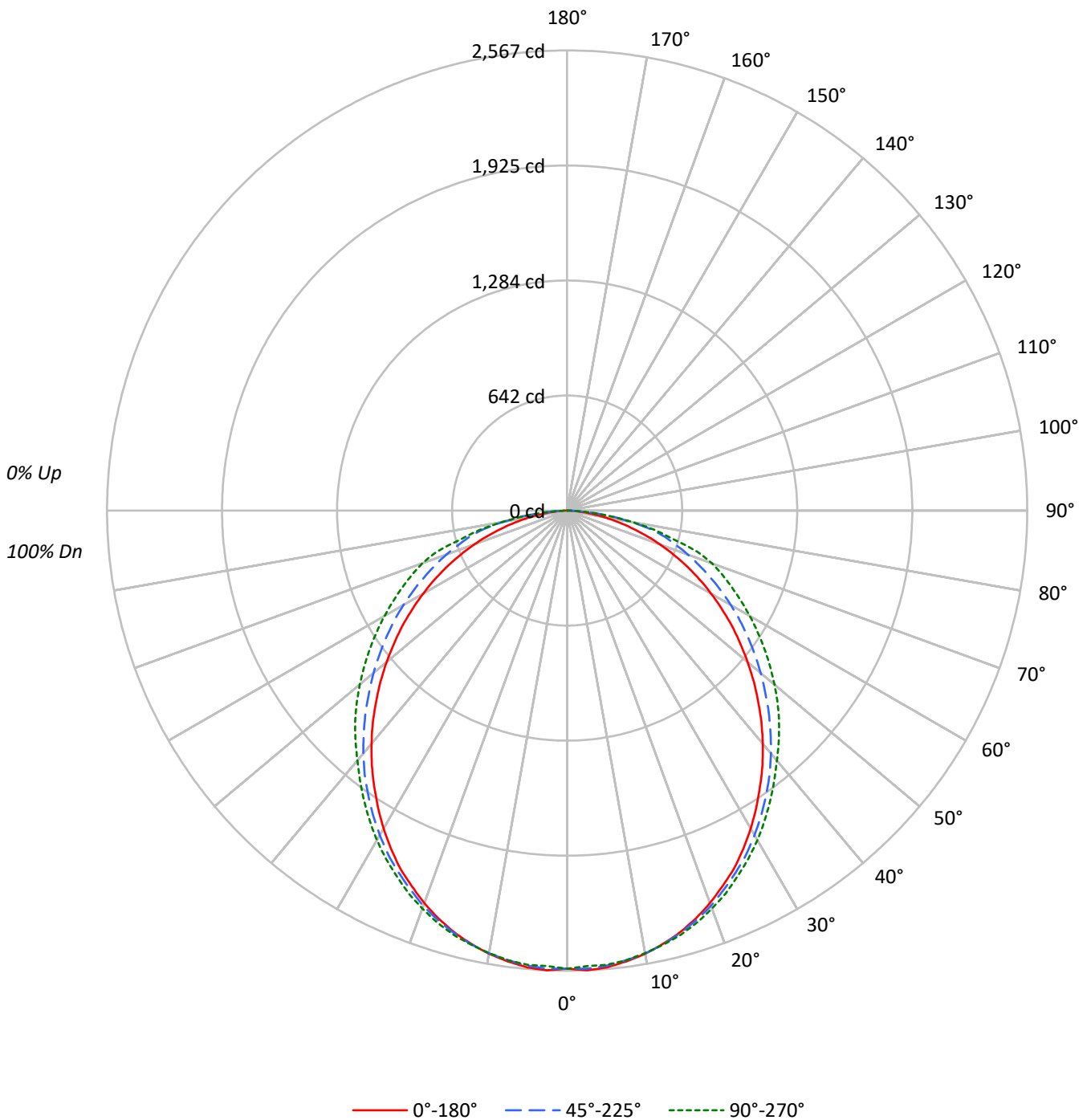
Input Watts (W): 59.922504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3438	3438	3438
5°	3454	3442	3435
10°	3430	3427	3424
15°	3393	3399	3412
20°	3336	3359	3383
25°	3270	3305	3340
30°	3182	3247	3299
35°	3082	3179	3244
40°	2982	3106	3197
45°	2869	3025	3182
50°	2753	2950	3161
55°	2633	2887	3151
60°	2496	2838	3166
65°	2348	2804	3230
70°	2162	2818	3382
75°	1917	2918	3150
80°	1602	2766	2839
85°	1196	2212	2030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	3.4
10°-20°	687.1	9.7
20°-30°	1023.9	14.5
30°-40°	1205.3	17.1
40°-50°	1224.9	17.4
50°-60°	1101.2	15.6
60°-70°	870.0	12.3
70°-80°	551.9	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°	1952.6	27.7
0°-40°	3157.9	44.7
0°-60°	5484.0	77.7
0°-90°	7058.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7058.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2555	2555	2555	2555	2555	
5°	2558	2536	2548	2544	2544	243
15°	2436	2424	2440	2447	2450	686
25°	2203	2201	2226	2240	2250	1013
35°	1876	1888	1935	1956	1975	1174
45°	1508	1529	1590	1637	1672	1163
55°	1123	1151	1231	1310	1343	1003
65°	737	775	881	977	1015	730
75°	369	432	561	611	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°	2555.2	2555.2	2555.2	2555.2	2555.2
2.5°	2567.0	2548.2	2557.6	2552.9	2543.5
5°	2557.6	2536.4	2548.2	2543.5	2543.5
7.5°	2536.4	2520.0	2529.4	2527.0	2529.4
10°	2510.6	2494.2	2508.3	2508.3	2505.9
12.5°	2475.4	2461.3	2477.7	2477.7	2480.1
15°	2435.5	2423.7	2440.1	2447.2	2449.5
17.5°	2386.1	2374.4	2395.5	2402.6	2409.6
20°	2329.8	2325.1	2346.2	2353.3	2362.6
22.5°	2266.4	2266.4	2287.5	2296.9	2311.0
25°	2202.9	2200.6	2226.4	2240.5	2249.9
27.5°	2127.8	2130.1	2163.0	2177.1	2188.9
30°	2047.9	2052.6	2090.2	2106.7	2123.1
32.5°	1963.4	1972.8	2015.1	2033.8	2050.3
35°	1876.5	1888.2	1935.2	1956.3	1975.1
37.5°	1789.6	1806.0	1855.4	1876.5	1897.6
40°	1698.0	1712.1	1768.5	1794.3	1820.1
42.5°	1604.1	1622.9	1679.2	1716.8	1747.3
45°	1507.8	1528.9	1590.0	1636.9	1672.2
47.5°	1411.5	1439.7	1498.4	1561.8	1592.3
50°	1315.2	1343.4	1409.1	1479.6	1510.1
52.5°	1216.6	1244.7	1319.9	1392.7	1425.6
55°	1122.6	1150.8	1230.6	1310.5	1343.4
57.5°	1024.0	1054.5	1143.7	1225.9	1258.8
60°	927.7	958.2	1054.5	1141.4	1176.6
62.5°	833.7	866.6	967.6	1059.2	1094.4
65°	737.4	775.0	880.7	977.0	1014.6
67.5°	643.5	685.8	796.2	897.1	937.1
70°	549.6	598.9	716.3	819.6	859.6
72.5°	458.0	512.0	636.5	739.8	760.9
75°	368.7	432.1	561.3	610.6	605.9
77.5°	284.2	354.6	476.8	486.2	500.2
80°	206.7	284.2	357.0	375.8	366.4
82.5°	136.2	213.7	256.0	246.6	244.2
85°	77.5	133.9	143.3	131.5	131.5
87.5°	32.9	54.0	47.0	35.2	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)