

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: P261012

Luminaire Tested: **24CZ-LD5-70-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261012
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-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6796.0 lumens
Efficiency: N/A
Efficacy: 126.9 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

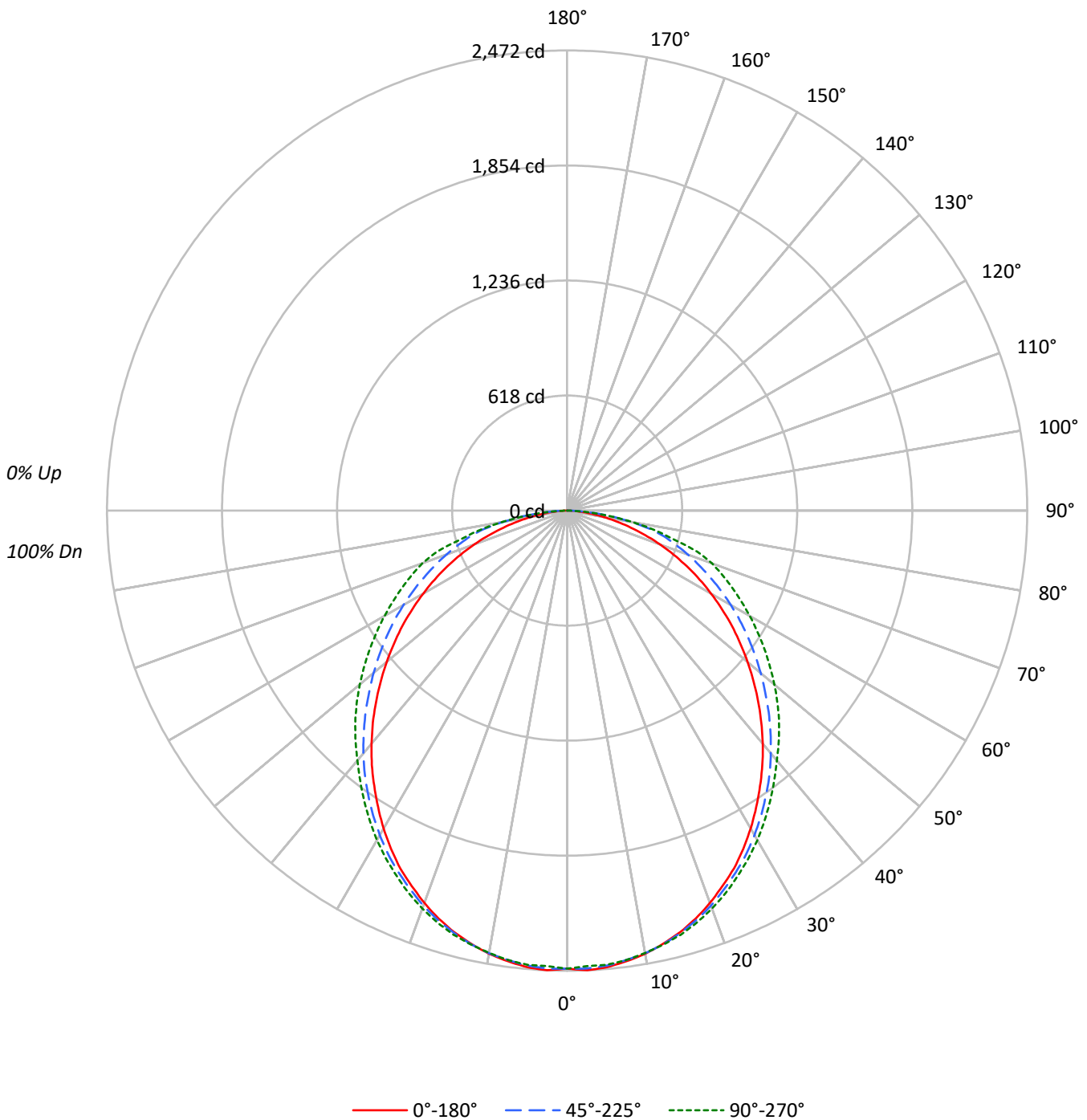
Input Watts (W): 53.553678
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3310	3310	3310
5°	3326	3314	3308
10°	3303	3300	3296
15°	3266	3273	3285
20°	3212	3235	3257
25°	3149	3183	3216
30°	3063	3127	3176
35°	2968	3061	3124
40°	2872	2991	3078
45°	2762	2913	3064
50°	2651	2840	3044
55°	2536	2780	3034
60°	2404	2732	3049
65°	2260	2700	3110
70°	2081	2713	3256
75°	1845	2809	3033
80°	1542	2663	2734
85°	1152	2129	1954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	3.4
10°-20°	661.5	9.7
20°-30°	985.9	14.5
30°-40°	1160.5	17.1
40°-50°	1179.4	17.4
50°-60°	1060.3	15.6
60°-70°	837.7	12.3
70°-80°	531.4	7.8
80°-90°	146.7	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°	1880.0	27.7
0°-40°	3040.6	44.7
0°-60°	5280.2	77.7
0°-90°	6796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2460	2460	2460	2460	2460	
5°	2462	2442	2454	2449	2449	233
15°	2345	2334	2350	2356	2358	661
25°	2121	2119	2144	2157	2166	975
35°	1807	1818	1863	1884	1902	1130
45°	1452	1472	1531	1576	1610	1120
55°	1081	1108	1185	1262	1294	965
65°	710	746	848	941	977	703
75°	355	416	540	588	583	378
85°	75	129	138	127	127	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2460.3	2460.3	2460.3	2460.3	2460.3
2.5°	2471.6	2453.5	2462.5	2458.0	2449.0
5°	2462.5	2442.2	2453.5	2449.0	2449.0
7.5°	2442.2	2426.4	2435.4	2433.1	2435.4
10°	2417.3	2401.5	2415.1	2415.1	2412.8
12.5°	2383.4	2369.8	2385.7	2385.7	2387.9
15°	2345.0	2333.6	2349.5	2356.3	2358.5
17.5°	2297.5	2286.2	2306.5	2313.3	2320.1
20°	2243.2	2238.7	2259.0	2265.8	2274.9
22.5°	2182.1	2182.1	2202.5	2211.5	2225.1
25°	2121.1	2118.8	2143.7	2157.3	2166.3
27.5°	2048.7	2051.0	2082.6	2096.2	2107.5
30°	1971.8	1976.4	2012.5	2028.4	2044.2
32.5°	1890.4	1899.5	1940.2	1958.3	1974.1
35°	1806.8	1818.1	1863.3	1883.6	1901.7
37.5°	1723.1	1738.9	1786.4	1806.8	1827.1
40°	1634.9	1648.5	1702.7	1727.6	1752.5
42.5°	1544.5	1562.5	1616.8	1653.0	1682.4
45°	1451.7	1472.1	1530.9	1576.1	1610.0
47.5°	1359.0	1386.2	1442.7	1503.8	1533.2
50°	1266.3	1293.5	1356.8	1424.6	1454.0
52.5°	1171.3	1198.5	1270.8	1340.9	1372.6
55°	1080.9	1108.0	1184.9	1261.8	1293.5
57.5°	985.9	1015.3	1101.2	1180.4	1212.0
60°	893.2	922.6	1015.3	1099.0	1132.9
62.5°	802.8	834.4	931.6	1019.8	1053.8
65°	710.0	746.2	848.0	940.7	976.9
67.5°	619.6	660.3	766.6	863.8	902.3
70°	529.1	576.6	689.7	789.2	827.6
72.5°	441.0	493.0	612.8	712.3	732.7
75°	355.0	416.1	540.4	587.9	583.4
77.5°	273.6	341.5	459.0	468.1	481.7
80°	199.0	273.6	343.7	361.8	352.8
82.5°	131.2	205.8	246.5	237.4	235.2
85°	74.6	128.9	137.9	126.6	126.6
87.5°	31.7	52.0	45.2	33.9	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)