

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: P261342

Luminaire Tested: **24CZ-LD5-75-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261342
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-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6967.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

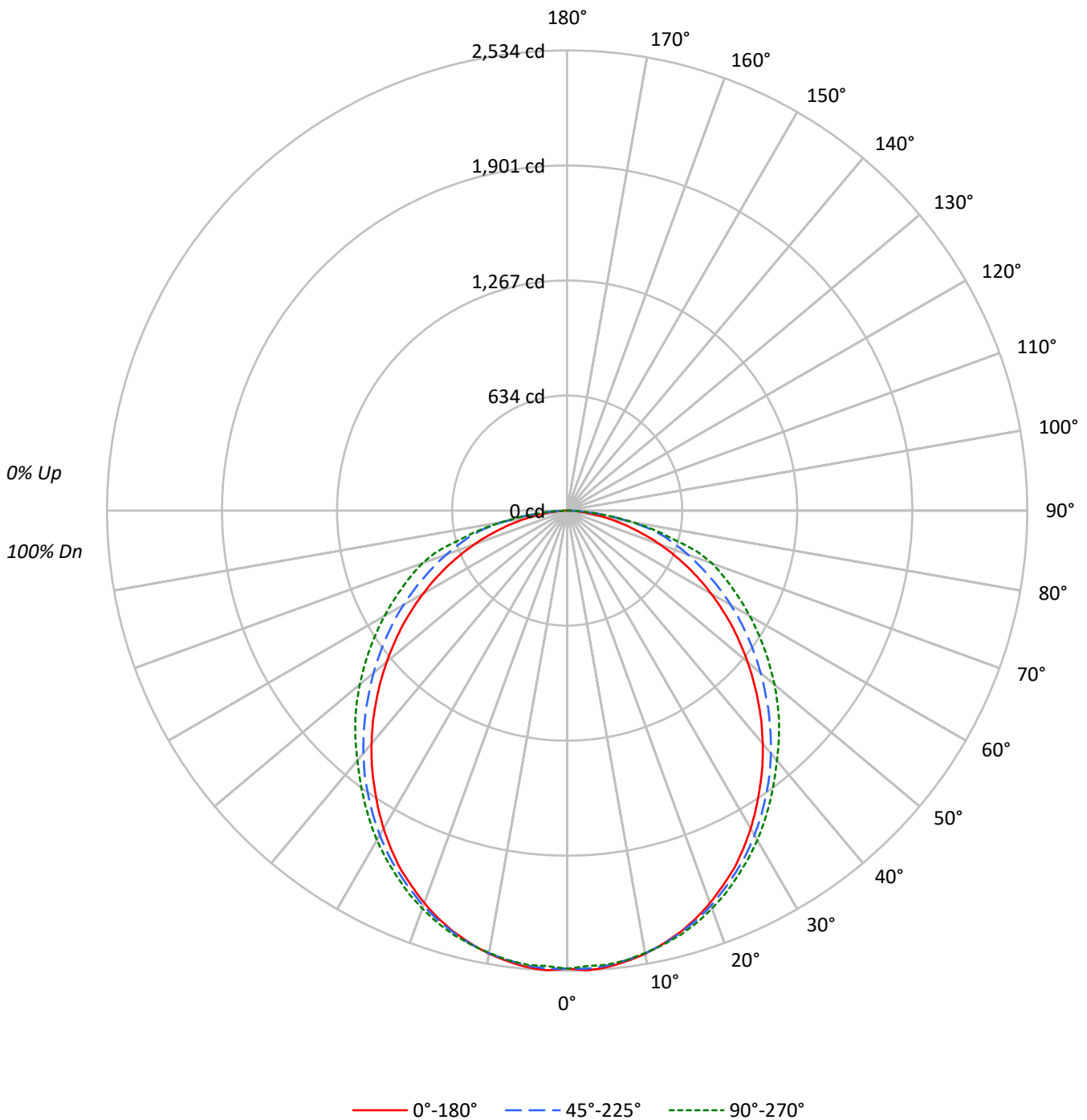
Input Watts (W): 59.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3394	3394	3394
5°	3410	3397	3391
10°	3386	3383	3379
15°	3349	3355	3368
20°	3293	3316	3339
25°	3228	3263	3297
30°	3141	3205	3256
35°	3042	3138	3202
40°	2944	3066	3156
45°	2832	2986	3141
50°	2717	2911	3120
55°	2599	2849	3111
60°	2464	2801	3125
65°	2317	2768	3188
70°	2134	2781	3338
75°	1892	2880	3109
80°	1581	2731	2802
85°	1181	2183	2004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.5	3.4
10°-20°	678.2	9.7
20°-30°	1010.7	14.5
30°-40°	1189.7	17.1
40°-50°	1209.0	17.4
50°-60°	1087.0	15.6
60°-70°	858.8	12.3
70°-80°	544.8	7.8
80°-90°	150.4	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°	1927.3	27.7
0°-40°	3117.1	44.7
0°-60°	5413.1	77.7
0°-90°	6967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2522	2522	2522	2522	2522	
5°	2524	2504	2515	2511	2511	239
15°	2404	2392	2409	2416	2418	677
25°	2174	2172	2198	2212	2221	1000
35°	1852	1864	1910	1931	1950	1159
45°	1488	1509	1569	1616	1650	1148
55°	1108	1136	1215	1294	1326	990
65°	728	765	869	964	1002	721
75°	364	426	554	603	598	387
85°	76	132	141	130	130	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2522.2	2522.2	2522.2	2522.2	2522.2
2.5°	2533.8	2515.2	2524.5	2519.9	2510.6
5°	2524.5	2503.6	2515.2	2510.6	2510.6
7.5°	2503.6	2487.4	2496.7	2494.4	2496.7
10°	2478.1	2461.9	2475.8	2475.8	2473.5
12.5°	2443.4	2429.5	2445.7	2445.7	2448.0
15°	2404.0	2392.4	2408.6	2415.5	2417.9
17.5°	2355.3	2343.7	2364.5	2371.5	2378.5
20°	2299.6	2295.0	2315.9	2322.8	2332.1
22.5°	2237.0	2237.0	2257.9	2267.2	2281.1
25°	2174.5	2172.1	2197.6	2211.5	2220.8
27.5°	2100.3	2102.6	2135.0	2149.0	2160.5
30°	2021.5	2026.1	2063.2	2079.4	2095.6
32.5°	1938.0	1947.3	1989.0	2007.5	2023.8
35°	1852.2	1863.8	1910.2	1931.0	1949.6
37.5°	1766.5	1782.7	1831.4	1852.2	1873.1
40°	1676.0	1690.0	1745.6	1771.1	1796.6
42.5°	1583.3	1601.9	1657.5	1694.6	1724.7
45°	1488.3	1509.1	1569.4	1615.8	1650.5
47.5°	1393.2	1421.0	1479.0	1541.6	1571.7
50°	1298.2	1326.0	1390.9	1460.5	1490.6
52.5°	1200.8	1228.6	1302.8	1374.7	1407.1
55°	1108.1	1135.9	1214.7	1293.5	1326.0
57.5°	1010.7	1040.9	1129.0	1210.1	1242.5
60°	915.7	945.8	1040.9	1126.6	1161.4
62.5°	823.0	855.4	955.1	1045.5	1080.3
65°	727.9	765.0	869.3	964.4	1001.5
67.5°	635.2	676.9	785.9	885.5	925.0
70°	542.5	591.1	707.0	809.0	848.5
72.5°	452.0	505.4	628.2	730.2	751.1
75°	364.0	426.5	554.0	602.7	598.1
77.5°	280.5	350.0	470.6	479.9	493.8
80°	204.0	280.5	352.4	370.9	361.6
82.5°	134.5	211.0	252.7	243.4	241.1
85°	76.5	132.1	141.4	129.8	129.8
87.5°	32.5	53.3	46.4	34.8	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)