

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: P261193

Luminaire Tested: **24CZ-LD5-65-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261193
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-LD5-65-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6969.0 lumens
Efficiency: N/A
Efficacy: 136.5 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

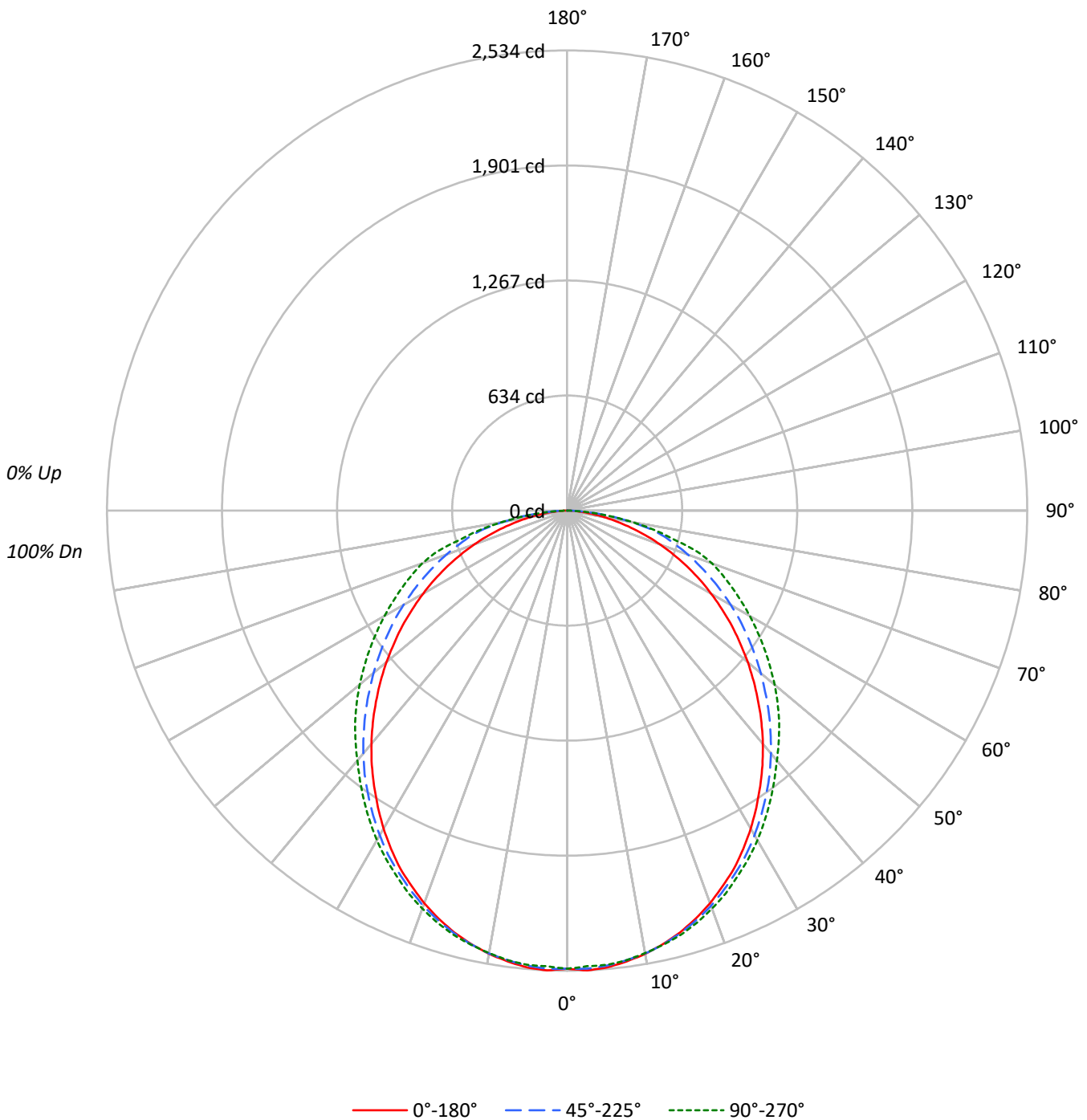
Input Watts (W): 51.057
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3395	3395	3395
5°	3411	3398	3392
10°	3387	3384	3380
15°	3349	3356	3369
20°	3294	3317	3340
25°	3229	3264	3298
30°	3141	3206	3257
35°	3043	3138	3203
40°	2945	3067	3156
45°	2833	2987	3142
50°	2718	2912	3121
55°	2600	2850	3111
60°	2465	2802	3126
65°	2318	2769	3189
70°	2135	2782	3339
75°	1893	2881	3110
80°	1581	2731	2803
85°	1181	2183	2005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.5	3.4
10°-20°	678.4	9.7
20°-30°	1011.0	14.5
30°-40°	1190.1	17.1
40°-50°	1209.4	17.4
50°-60°	1087.3	15.6
60°-70°	859.0	12.3
70°-80°	545.0	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°	1927.9	27.7
0°-40°	3118.0	44.7
0°-60°	5414.7	77.7
0°-90°	6969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2523	2523	2523	2523	2523	
5°	2525	2504	2516	2511	2511	239
15°	2405	2393	2409	2416	2419	677
25°	2175	2173	2198	2212	2222	1000
35°	1853	1864	1911	1932	1950	1159
45°	1489	1510	1570	1616	1651	1149
55°	1108	1136	1215	1294	1326	990
65°	728	765	870	965	1002	721
75°	364	427	554	603	598	388
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°	2522.9	2522.9	2522.9	2522.9	2522.9
2.5°	2534.5	2515.9	2525.2	2520.6	2511.3
5°	2525.2	2504.4	2515.9	2511.3	2511.3
7.5°	2504.4	2488.1	2497.4	2495.1	2497.4
10°	2478.8	2462.6	2476.5	2476.5	2474.2
12.5°	2444.1	2430.2	2446.4	2446.4	2448.7
15°	2404.6	2393.1	2409.3	2416.2	2418.6
17.5°	2355.9	2344.4	2365.2	2372.2	2379.1
20°	2300.3	2295.7	2316.5	2323.5	2332.8
22.5°	2237.7	2237.7	2258.6	2267.8	2281.7
25°	2175.1	2172.8	2198.3	2212.2	2221.5
27.5°	2100.9	2103.2	2135.7	2149.6	2161.2
30°	2022.0	2026.7	2063.8	2080.0	2096.2
32.5°	1938.6	1947.8	1989.6	2008.1	2024.4
35°	1852.8	1864.4	1910.7	1931.6	1950.2
37.5°	1767.0	1783.2	1831.9	1852.8	1873.6
40°	1676.5	1690.4	1746.1	1771.6	1797.1
42.5°	1583.8	1602.3	1658.0	1695.1	1725.2
45°	1488.7	1509.6	1569.9	1616.2	1651.0
47.5°	1393.6	1421.5	1479.4	1542.0	1572.2
50°	1298.6	1326.4	1391.3	1460.9	1491.0
52.5°	1201.2	1229.0	1303.2	1375.1	1407.5
55°	1108.4	1136.2	1215.1	1293.9	1326.4
57.5°	1011.0	1041.2	1129.3	1210.4	1242.9
60°	915.9	946.1	1041.2	1127.0	1161.7
62.5°	823.2	855.7	955.4	1045.8	1080.6
65°	728.1	765.2	869.6	964.6	1001.7
67.5°	635.4	677.1	786.1	885.8	925.2
70°	542.6	591.3	707.2	809.3	848.7
72.5°	452.2	505.5	628.4	730.4	751.3
75°	364.1	426.7	554.2	602.9	598.3
77.5°	280.6	350.1	470.7	480.0	493.9
80°	204.1	280.6	352.5	371.0	361.7
82.5°	134.5	211.0	252.8	243.5	241.2
85°	76.5	132.2	141.4	129.9	129.9
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)