

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: P263848

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4311.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

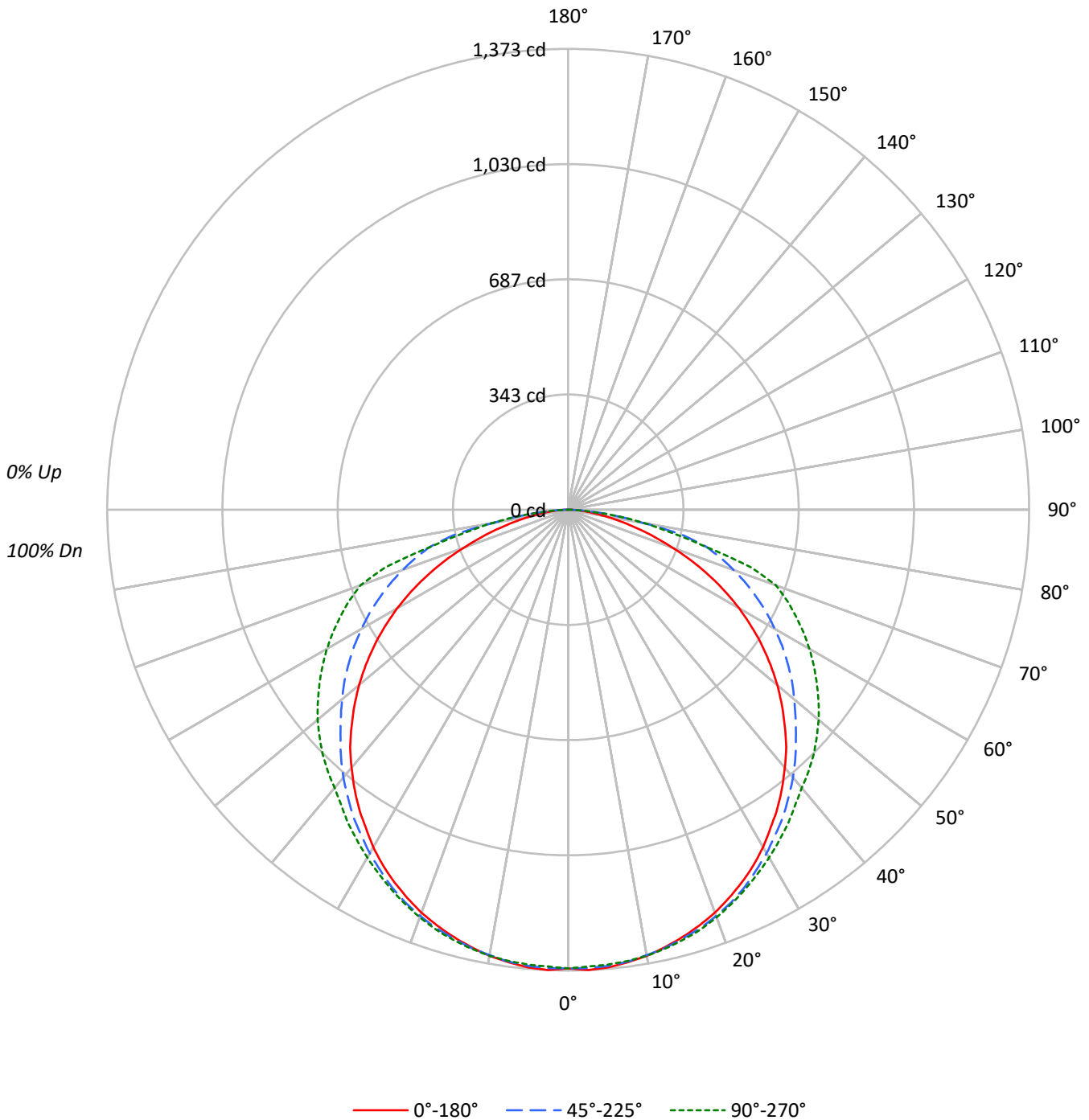
Input Watts (W): 51.243  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1839	1839	1839
5°	1849	1843	1837
10°	1844	1841	1844
15°	1836	1842	1847
20°	1829	1844	1851
25°	1818	1843	1852
30°	1803	1836	1860
35°	1785	1833	1875
40°	1763	1830	1901
45°	1736	1825	1967
50°	1701	1839	2039
55°	1653	1872	2121
60°	1582	1913	2233
65°	1473	1973	2378
70°	1302	2062	2588
75°	1092	2206	2174
80°	872	1743	1808
85°	689	1179	1081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	3.0
10°-20°	373.0	8.7
20°-30°	569.8	13.2
30°-40°	696.6	16.2
40°-50°	745.6	17.3
50°-60°	715.2	16.6
60°-70°	603.9	14.0
70°-80°	385.9	9.0
80°-90°	91.3	2.1
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°	1072.4	24.9
0°-40°	1769.1	41.0
0°-60°	3229.9	74.9
0°-90°	4311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1369	1360	1364	1362	1360	130
15°	1318	1314	1322	1326	1326	372
25°	1224	1222	1241	1246	1248	564
35°	1086	1095	1116	1131	1142	679
45°	912	927	959	1004	1034	704
55°	704	728	798	870	904	629
65°	463	507	620	707	747	456
75°	210	299	424	433	418	226
85°	45	74	76	74	70	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1366.6	1366.6	1366.6	1366.6	1366.6
2.5°	1373.0	1364.5	1366.6	1366.6	1362.4
5°	1368.7	1360.3	1364.5	1362.4	1360.3
7.5°	1360.3	1353.9	1358.1	1358.1	1356.0
10°	1349.6	1343.3	1347.5	1349.6	1349.6
12.5°	1334.8	1330.5	1336.9	1336.9	1339.0
15°	1317.8	1313.6	1322.1	1326.3	1326.3
17.5°	1298.7	1296.6	1307.2	1309.3	1311.4
20°	1277.5	1275.4	1288.1	1288.1	1292.4
22.5°	1252.0	1249.9	1266.9	1266.9	1271.1
25°	1224.4	1222.3	1241.4	1245.7	1247.8
27.5°	1194.7	1192.6	1211.7	1218.1	1222.3
30°	1160.8	1160.8	1182.0	1190.5	1196.9
32.5°	1122.6	1128.9	1148.0	1160.8	1169.3
35°	1086.5	1095.0	1116.2	1131.1	1141.7
37.5°	1046.2	1054.7	1078.0	1097.1	1109.9
40°	1003.7	1014.4	1041.9	1063.2	1082.3
42.5°	961.3	971.9	1001.6	1033.5	1058.9
45°	912.5	927.4	959.2	1003.7	1033.5
47.5°	863.7	878.5	918.9	974.0	1003.7
50°	812.8	829.7	878.5	942.2	974.0
52.5°	759.7	778.8	840.3	908.3	940.1
55°	704.5	727.9	797.9	870.1	904.0
57.5°	647.2	672.7	755.5	831.9	867.9
60°	587.8	619.6	710.9	791.5	829.7
62.5°	526.3	564.5	666.3	749.1	789.4
65°	462.6	507.2	619.6	706.7	747.0
67.5°	396.8	456.2	573.0	664.2	704.5
70°	331.0	401.1	524.2	617.5	657.8
72.5°	269.5	350.1	475.3	562.4	570.8
75°	210.1	299.2	424.4	432.9	418.1
77.5°	157.0	248.3	350.1	311.9	309.8
80°	112.5	199.5	224.9	231.3	233.4
82.5°	74.3	150.7	146.4	150.7	148.5
85°	44.6	74.3	76.4	74.3	70.0
87.5°	21.2	27.6	21.2	19.1	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)