

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: P263530

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263530  
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-L83050-W2A1-U-4500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4815.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 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

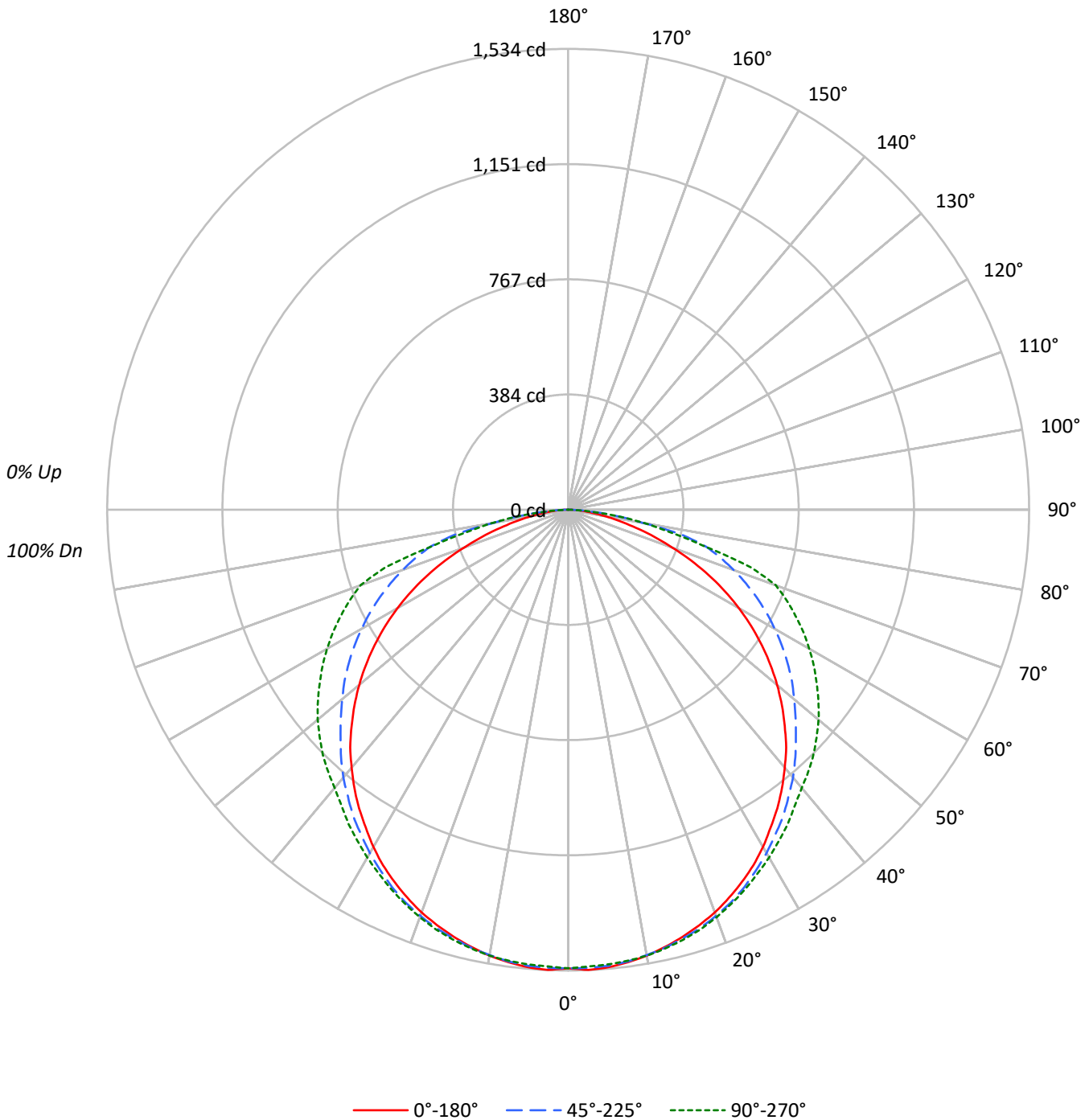
Input Watts (W): 51.314982  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2054	2054	2054
5°	2065	2058	2052
10°	2059	2056	2059
15°	2050	2057	2064
20°	2043	2060	2067
25°	2030	2059	2069
30°	2014	2051	2077
35°	1993	2048	2095
40°	1969	2044	2123
45°	1939	2038	2196
50°	1900	2054	2277
55°	1846	2091	2369
60°	1767	2137	2494
65°	1645	2203	2656
70°	1454	2303	2891
75°	1220	2464	2427
80°	973	1946	2020
85°	769	1317	1207



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	3.0
10°-20°	416.6	8.7
20°-30°	636.4	13.2
30°-40°	778.1	16.2
40°-50°	832.8	17.3
50°-60°	798.8	16.6
60°-70°	674.5	14.0
70°-80°	431.1	9.0
80°-90°	101.9	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°	1197.8	24.9
0°-40°	1975.9	41.0
0°-60°	3607.5	74.9
0°-90°	4815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1529	1519	1524	1522	1519	145
15°	1472	1467	1477	1481	1481	416
25°	1368	1365	1387	1391	1394	630
35°	1214	1223	1247	1263	1275	759
45°	1019	1036	1071	1121	1154	786
55°	787	813	891	972	1010	702
65°	517	566	692	789	834	510
75°	235	334	474	484	467	253
85°	50	83	85	83	78	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1526.4	1526.4	1526.4	1526.4	1526.4
2.5°	1533.5	1524.0	1526.4	1526.4	1521.7
5°	1528.8	1519.3	1524.0	1521.7	1519.3
7.5°	1519.3	1512.2	1516.9	1516.9	1514.5
10°	1507.4	1500.3	1505.1	1507.4	1507.4
12.5°	1490.8	1486.1	1493.2	1493.2	1495.6
15°	1471.9	1467.1	1476.6	1481.4	1481.4
17.5°	1450.5	1448.2	1460.0	1462.4	1464.8
20°	1426.8	1424.5	1438.7	1438.7	1443.4
22.5°	1398.4	1396.0	1415.0	1415.0	1419.7
25°	1367.6	1365.2	1386.6	1391.3	1393.7
27.5°	1334.4	1332.0	1353.4	1360.5	1365.2
30°	1296.5	1296.5	1320.2	1329.7	1336.8
32.5°	1253.8	1260.9	1282.3	1296.5	1306.0
35°	1213.5	1223.0	1246.7	1263.3	1275.2
37.5°	1168.5	1178.0	1204.1	1225.4	1239.6
40°	1121.1	1132.9	1163.8	1187.5	1208.8
42.5°	1073.7	1085.5	1118.7	1154.3	1182.7
45°	1019.2	1035.8	1071.3	1121.1	1154.3
47.5°	964.7	981.3	1026.3	1087.9	1121.1
50°	907.8	926.7	981.3	1052.4	1087.9
52.5°	848.5	869.9	938.6	1014.4	1050.0
55°	786.9	813.0	891.2	971.8	1009.7
57.5°	722.9	751.3	843.8	929.1	969.4
60°	656.5	692.1	794.0	884.1	926.7
62.5°	587.8	630.5	744.2	836.7	881.7
65°	516.7	566.5	692.1	789.3	834.3
67.5°	443.2	509.6	639.9	741.9	786.9
70°	369.7	448.0	585.4	689.7	734.8
72.5°	301.0	391.1	530.9	628.1	637.6
75°	234.6	334.2	474.0	483.5	466.9
77.5°	175.4	277.3	391.1	348.4	346.0
80°	125.6	222.8	251.2	258.3	260.7
82.5°	83.0	168.3	163.5	168.3	165.9
85°	49.8	83.0	85.3	83.0	78.2
87.5°	23.7	30.8	23.7	21.3	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)