

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: P263846

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263846  
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-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4264.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 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

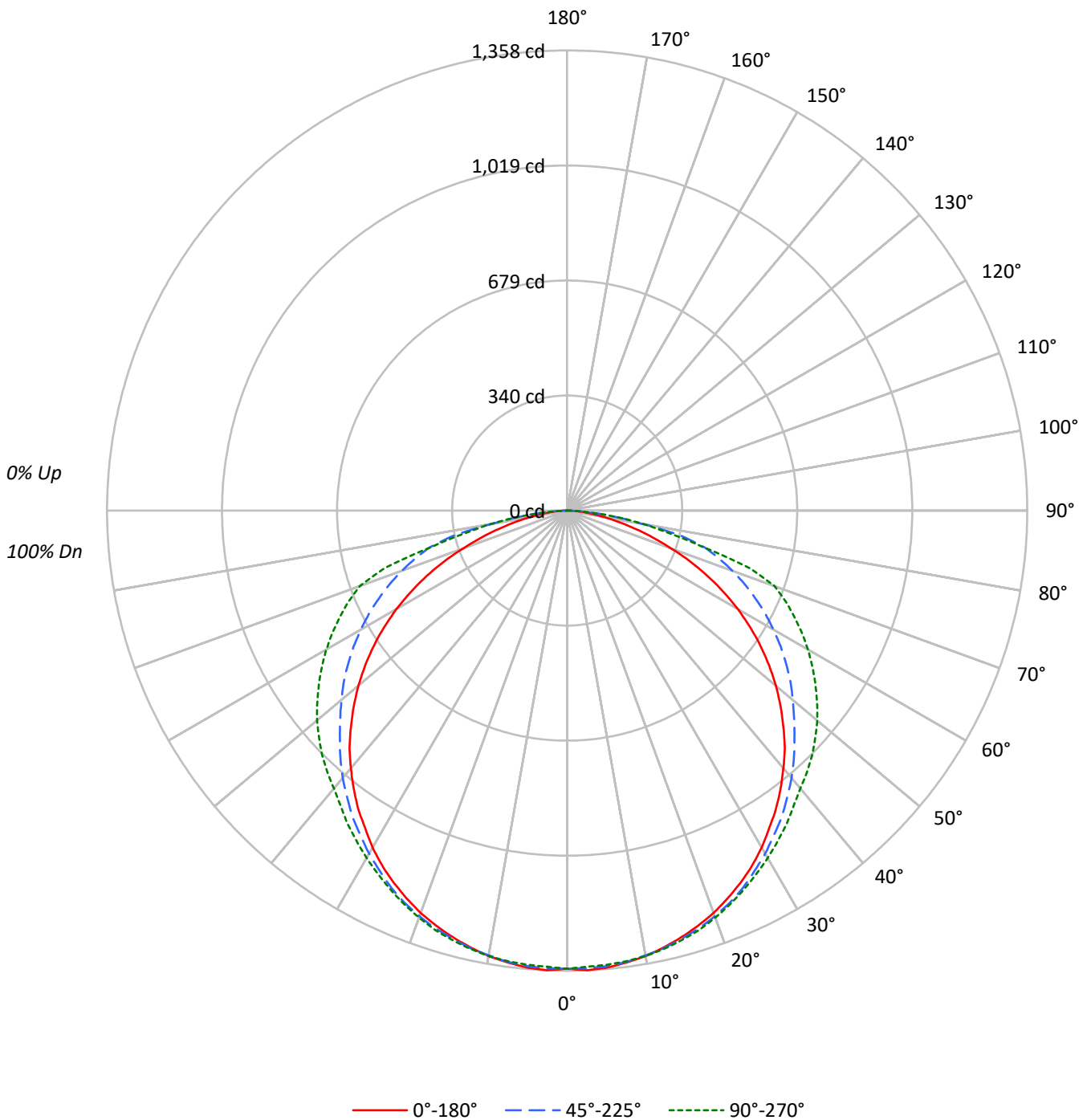
Input Watts (W): 50.313  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1819	1819	1819
5°	1828	1823	1817
10°	1824	1821	1824
15°	1816	1821	1827
20°	1809	1824	1830
25°	1798	1823	1832
30°	1784	1816	1839
35°	1765	1813	1855
40°	1744	1810	1880
45°	1717	1805	1945
50°	1683	1819	2017
55°	1635	1851	2098
60°	1565	1892	2208
65°	1457	1951	2352
70°	1288	2039	2560
75°	1080	2182	2150
80°	862	1724	1789
85°	681	1167	1070



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	3.0
10°-20°	369.0	8.7
20°-30°	563.6	13.2
30°-40°	689.0	16.2
40°-50°	737.5	17.3
50°-60°	707.4	16.6
60°-70°	597.3	14.0
70°-80°	381.7	9.0
80°-90°	90.3	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°	1060.8	24.9
0°-40°	1749.8	41.0
0°-60°	3194.7	74.9
0°-90°	4264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4264.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1354	1345	1350	1348	1345	129
15°	1303	1299	1308	1312	1312	368
25°	1211	1209	1228	1232	1234	558
35°	1075	1083	1104	1119	1129	672
45°	902	917	949	993	1022	696
55°	697	720	789	861	894	622
65°	458	502	613	699	739	451
75°	208	296	420	428	414	224
85°	44	74	76	74	69	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1351.7	1351.7	1351.7	1351.7	1351.7
2.5°	1358.0	1349.6	1351.7	1351.7	1347.5
5°	1353.8	1345.4	1349.6	1347.5	1345.4
7.5°	1345.4	1339.1	1343.3	1343.3	1341.2
10°	1334.9	1328.6	1332.8	1334.9	1334.9
12.5°	1320.2	1316.0	1322.3	1322.3	1324.4
15°	1303.4	1299.2	1307.6	1311.8	1311.8
17.5°	1284.6	1282.5	1293.0	1295.1	1297.2
20°	1263.6	1261.5	1274.1	1274.1	1278.3
22.5°	1238.4	1236.3	1253.1	1253.1	1257.3
25°	1211.1	1209.0	1227.9	1232.1	1234.2
27.5°	1181.7	1179.6	1198.5	1204.8	1209.0
30°	1148.1	1148.1	1169.1	1177.5	1183.8
32.5°	1110.3	1116.6	1135.5	1148.1	1156.5
35°	1074.7	1083.1	1104.0	1118.7	1129.2
37.5°	1034.8	1043.2	1066.3	1085.2	1097.8
40°	992.8	1003.3	1030.6	1051.6	1070.5
42.5°	950.8	961.3	990.7	1022.2	1047.4
45°	902.5	917.2	948.7	992.8	1022.2
47.5°	854.3	869.0	908.8	963.4	992.8
50°	803.9	820.7	869.0	931.9	963.4
52.5°	751.4	770.3	831.2	898.4	929.8
55°	696.9	719.9	789.2	860.6	894.2
57.5°	640.2	665.4	747.2	822.8	858.5
60°	581.4	612.9	703.1	782.9	820.7
62.5°	520.5	558.3	659.1	740.9	780.8
65°	457.6	501.6	612.9	699.0	738.8
67.5°	392.5	451.3	566.7	657.0	696.9
70°	327.4	396.7	518.4	610.8	650.7
72.5°	266.6	346.3	470.2	556.2	564.6
75°	207.8	296.0	419.8	428.2	413.5
77.5°	155.3	245.6	346.3	308.5	306.4
80°	111.2	197.3	222.5	228.8	230.9
82.5°	73.5	149.0	144.8	149.0	146.9
85°	44.1	73.5	75.6	73.5	69.3
87.5°	21.0	27.3	21.0	18.9	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)