

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: P263528

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263528  
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-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4543.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 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

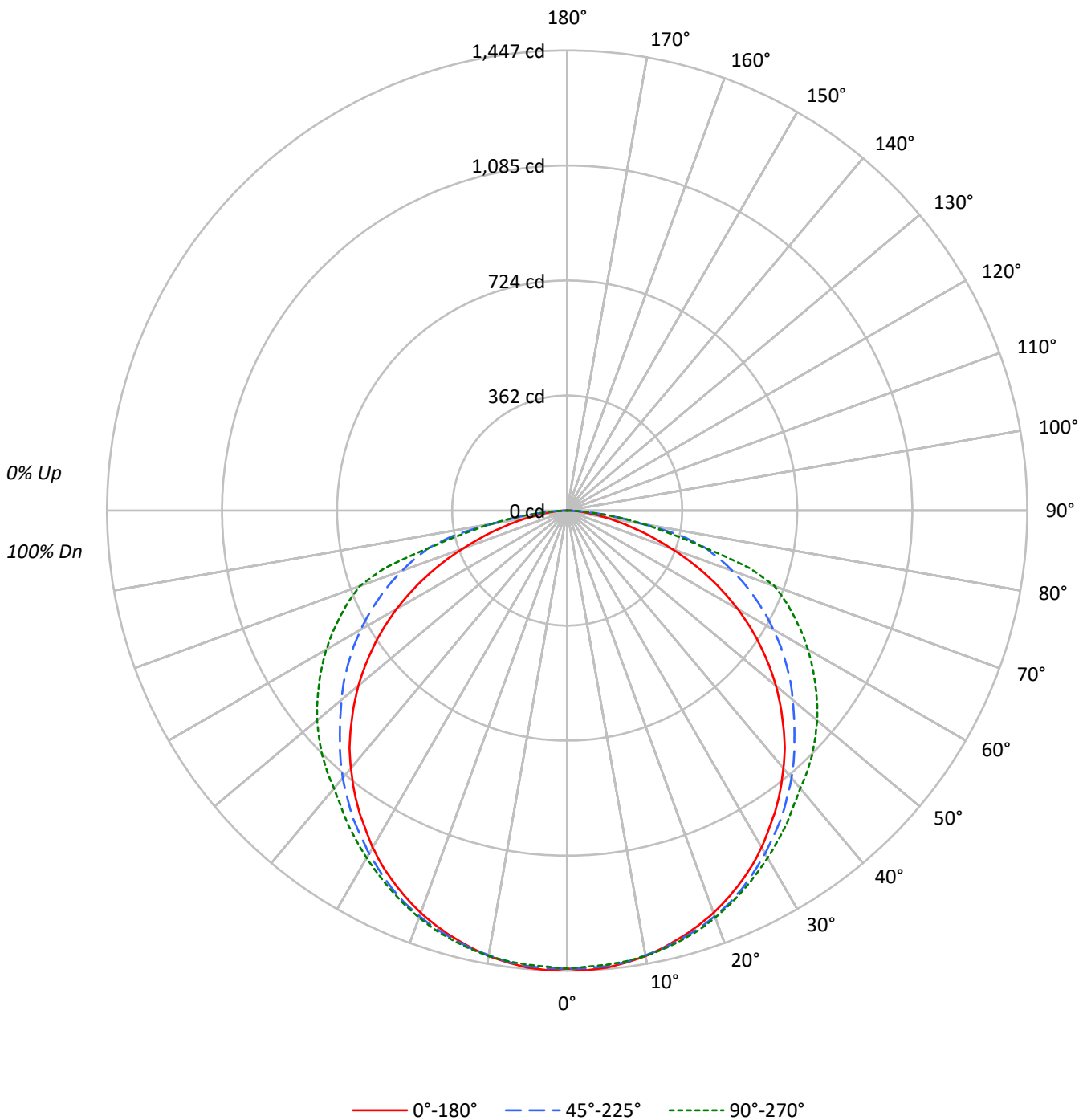
Input Watts (W): 48.918  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	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°	1938	1938	1938
5°	1948	1942	1936
10°	1943	1940	1943
15°	1934	1941	1947
20°	1928	1944	1950
25°	1916	1942	1952
30°	1900	1935	1960
35°	1881	1932	1976
40°	1858	1929	2003
45°	1830	1923	2072
50°	1793	1938	2149
55°	1742	1972	2235
60°	1667	2016	2353
65°	1552	2079	2506
70°	1373	2173	2727
75°	1151	2325	2290
80°	918	1836	1906
85°	726	1243	1139



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.6	3.0
10°-20°	393.1	8.7
20°-30°	600.5	13.2
30°-40°	734.1	16.2
40°-50°	785.8	17.3
50°-60°	753.7	16.6
60°-70°	636.4	14.0
70°-80°	406.7	9.0
80°-90°	96.2	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°	1130.2	24.9
0°-40°	1864.3	41.0
0°-60°	3403.7	74.9
0°-90°	4543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1442	1434	1438	1436	1434	137
15°	1389	1384	1393	1398	1398	392
25°	1290	1288	1308	1313	1315	595
35°	1145	1154	1176	1192	1203	716
45°	962	977	1011	1058	1089	742
55°	742	767	841	917	953	663
65°	488	534	653	745	787	481
75°	221	315	447	456	440	238
85°	47	78	80	78	74	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1440.2	1440.2	1440.2	1440.2	1440.2
2.5°	1446.9	1437.9	1440.2	1440.2	1435.7
5°	1442.4	1433.5	1437.9	1435.7	1433.5
7.5°	1433.5	1426.8	1431.2	1431.2	1429.0
10°	1422.3	1415.6	1420.0	1422.3	1422.3
12.5°	1406.6	1402.2	1408.9	1408.9	1411.1
15°	1388.7	1384.3	1393.2	1397.7	1397.7
17.5°	1368.6	1366.4	1377.6	1379.8	1382.0
20°	1346.2	1344.0	1357.4	1357.4	1361.9
22.5°	1319.4	1317.2	1335.1	1335.1	1339.5
25°	1290.3	1288.1	1308.2	1312.7	1314.9
27.5°	1259.0	1256.8	1276.9	1283.6	1288.1
30°	1223.2	1223.2	1245.6	1254.6	1261.3
32.5°	1183.0	1189.7	1209.8	1223.2	1232.2
35°	1145.0	1153.9	1176.3	1191.9	1203.1
37.5°	1102.5	1111.4	1136.0	1156.2	1169.6
40°	1057.8	1068.9	1098.0	1120.4	1140.5
42.5°	1013.0	1024.2	1055.5	1089.1	1115.9
45°	961.6	977.3	1010.8	1057.8	1089.1
47.5°	910.2	925.8	968.3	1026.5	1057.8
50°	856.5	874.4	925.8	992.9	1026.5
52.5°	800.6	820.7	885.6	957.1	990.7
55°	742.4	767.0	840.8	916.9	952.7
57.5°	682.1	708.9	796.1	876.6	914.6
60°	619.5	653.0	749.2	834.1	874.4
62.5°	554.6	594.9	702.2	789.4	831.9
65°	487.5	534.5	653.0	744.7	787.2
67.5°	418.2	480.8	603.8	700.0	742.4
70°	348.9	422.7	552.4	650.8	693.2
72.5°	284.0	369.0	500.9	592.6	601.6
75°	221.4	315.3	447.3	456.2	440.5
77.5°	165.5	261.6	369.0	328.7	326.5
80°	118.5	210.2	237.0	243.8	246.0
82.5°	78.3	158.8	154.3	158.8	156.5
85°	47.0	78.3	80.5	78.3	73.8
87.5°	22.4	29.1	22.4	20.1	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)