

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: P261276

Luminaire Tested: **24CZ-LD5-40-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261276  
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-LD5-40-S-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3385.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 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

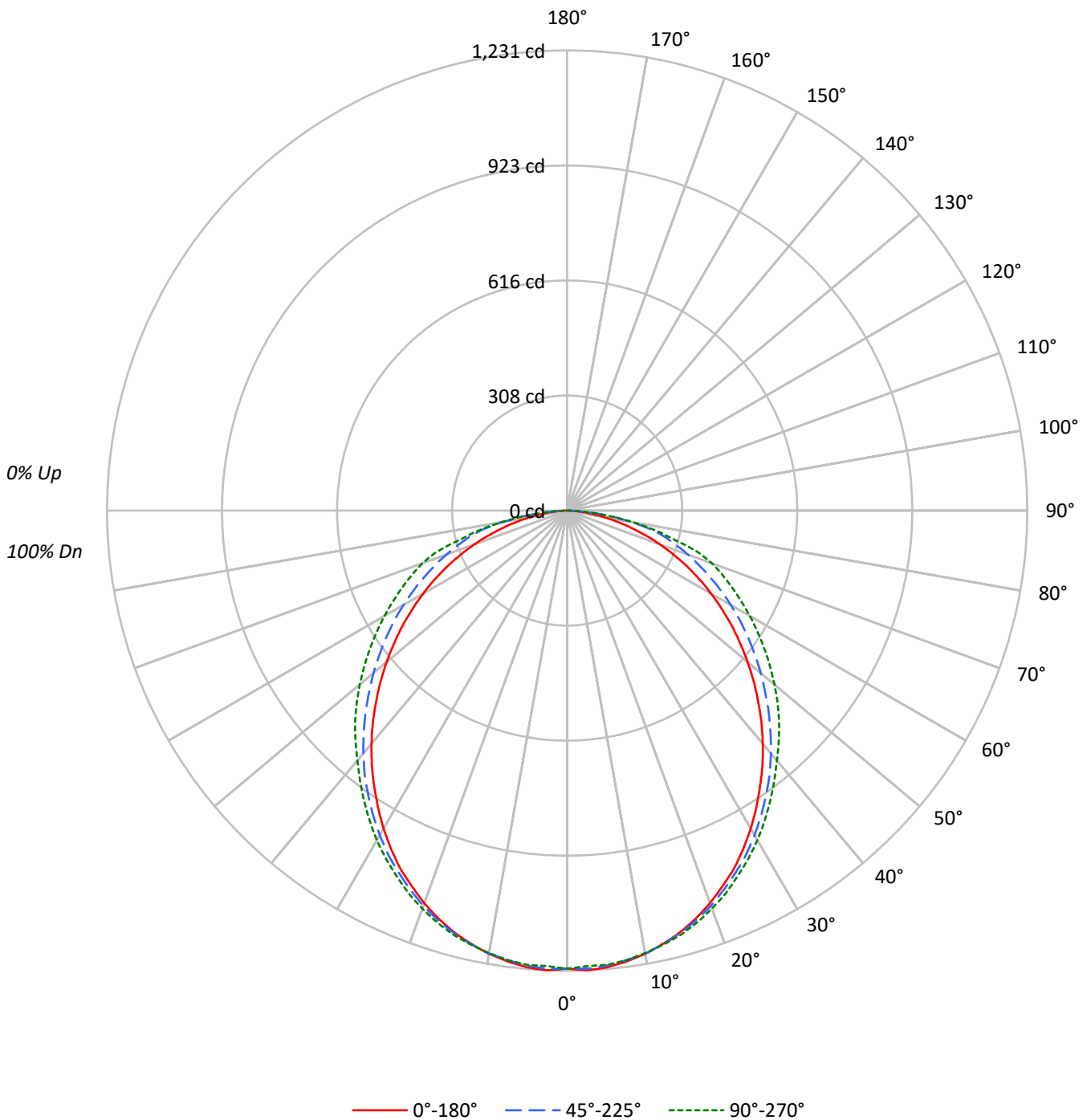
Input Watts (W): 27.993  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1649	1649	1649
5°	1657	1651	1647
10°	1645	1643	1642
15°	1627	1630	1636
20°	1600	1611	1622
25°	1568	1585	1602
30°	1526	1557	1582
35°	1478	1524	1556
40°	1430	1490	1533
45°	1376	1451	1526
50°	1320	1415	1516
55°	1263	1384	1511
60°	1197	1361	1519
65°	1126	1345	1549
70°	1037	1351	1622
75°	919	1399	1511
80°	768	1327	1361
85°	574	1061	974



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.9	3.4
10°-20°	329.5	9.7
20°-30°	491.0	14.5
30°-40°	578.0	17.1
40°-50°	587.4	17.4
50°-60°	528.1	15.6
60°-70°	417.2	12.3
70°-80°	264.7	7.8
80°-90°	73.1	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°	936.4	27.7
0°-40°	1514.5	44.7
0°-60°	2630.0	77.7
0°-90°	3385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3385.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1227	1216	1222	1220	1220	116
15°	1168	1162	1170	1174	1175	329
25°	1056	1055	1068	1074	1079	486
35°	900	906	928	938	947	563
45°	723	733	762	785	802	558
55°	538	552	590	628	644	481
65°	354	372	422	468	487	350
75°	177	207	269	293	291	188
85°	37	64	69	63	63	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1225.4	1225.4	1225.4	1225.4	1225.4
2.5°	1231.1	1222.1	1226.6	1224.3	1219.8
5°	1226.6	1216.4	1222.1	1219.8	1219.8
7.5°	1216.4	1208.5	1213.0	1211.9	1213.0
10°	1204.0	1196.1	1202.9	1202.9	1201.8
12.5°	1187.1	1180.4	1188.3	1188.3	1189.4
15°	1168.0	1162.4	1170.2	1173.6	1174.7
17.5°	1144.3	1138.7	1148.8	1152.2	1155.6
20°	1117.3	1115.1	1125.2	1128.6	1133.1
22.5°	1086.9	1086.9	1097.0	1101.5	1108.3
25°	1056.5	1055.4	1067.7	1074.5	1079.0
27.5°	1020.4	1021.6	1037.3	1044.1	1049.7
30°	982.1	984.4	1002.4	1010.3	1018.2
32.5°	941.6	946.1	966.4	975.4	983.3
35°	899.9	905.6	928.1	938.2	947.2
37.5°	858.3	866.1	889.8	899.9	910.1
40°	814.3	821.1	848.1	860.5	872.9
42.5°	769.3	778.3	805.3	823.3	838.0
45°	723.1	733.2	762.5	785.0	801.9
47.5°	676.9	690.4	718.6	749.0	763.6
50°	630.7	644.3	675.8	709.6	724.2
52.5°	583.4	596.9	633.0	667.9	683.7
55°	538.4	551.9	590.2	628.5	644.3
57.5°	491.1	505.7	548.5	587.9	603.7
60°	444.9	459.5	505.7	547.4	564.3
62.5°	399.8	415.6	464.0	508.0	524.9
65°	353.7	371.7	422.4	468.5	486.6
67.5°	308.6	328.9	381.8	430.3	449.4
70°	263.6	287.2	343.5	393.1	412.2
72.5°	219.6	245.5	305.2	354.8	364.9
75°	176.8	207.2	269.2	292.8	290.6
77.5°	136.3	170.1	228.6	233.1	239.9
80°	99.1	136.3	171.2	180.2	175.7
82.5°	65.3	102.5	122.8	118.3	117.1
85°	37.2	64.2	68.7	63.1	63.1
87.5°	15.8	25.9	22.5	16.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)