

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: P263803

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263803  
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-LD5-40-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: 2687.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

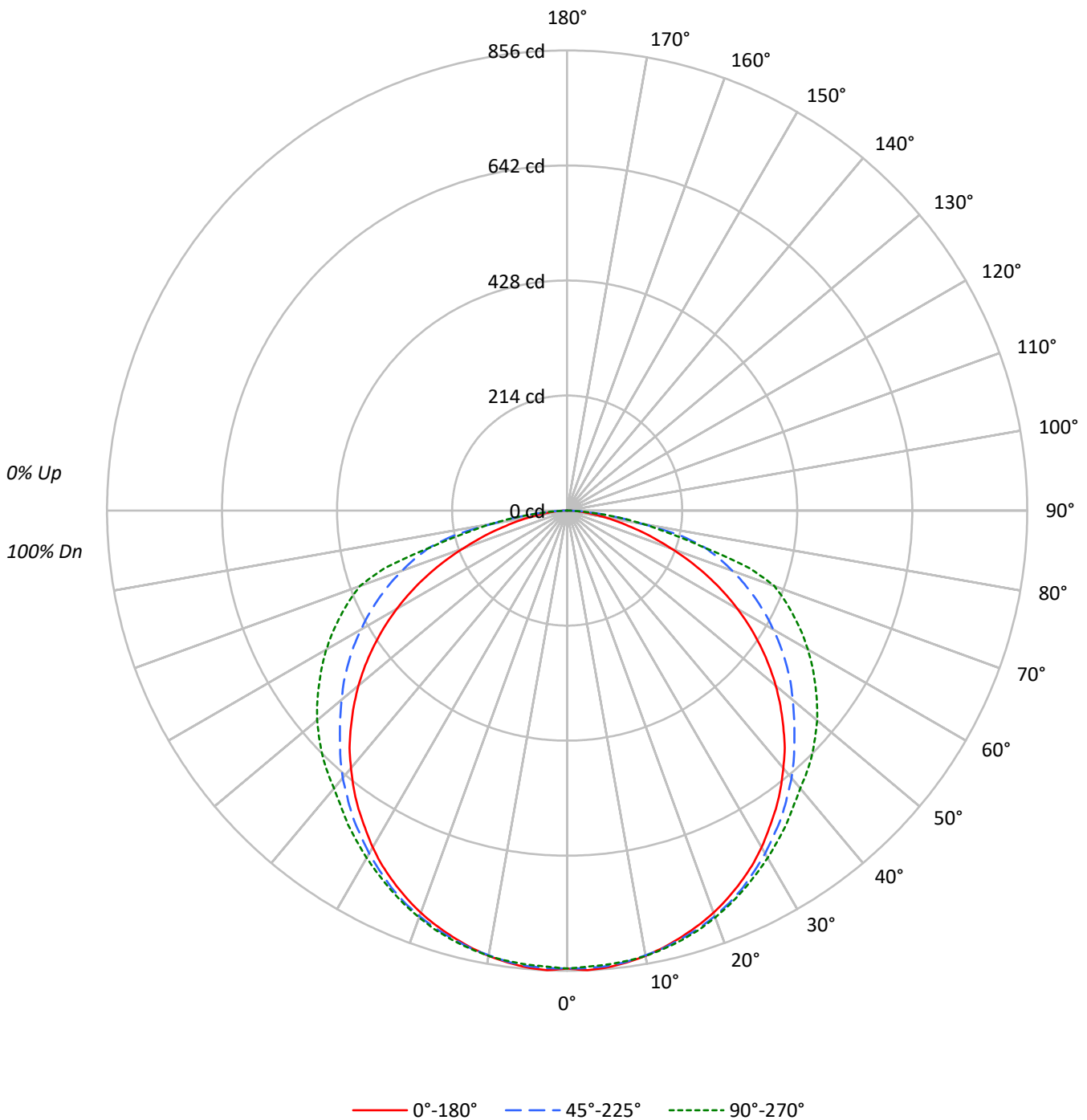
Input Watts (W): 29.574  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1146	1146	1146
5°	1152	1149	1145
10°	1149	1148	1149
15°	1144	1148	1152
20°	1140	1150	1153
25°	1133	1149	1155
30°	1124	1145	1159
35°	1112	1143	1169
40°	1099	1141	1185
45°	1082	1137	1226
50°	1060	1146	1271
55°	1030	1167	1322
60°	986	1192	1392
65°	918	1230	1482
70°	812	1285	1613
75°	680	1375	1355
80°	543	1086	1127
85°	429	735	673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	3.0
10°-20°	232.5	8.7
20°-30°	355.1	13.2
30°-40°	434.2	16.2
40°-50°	464.7	17.3
50°-60°	445.8	16.6
60°-70°	376.4	14.0
70°-80°	240.5	9.0
80°-90°	56.9	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°	668.4	24.9
0°-40°	1102.6	41.0
0°-60°	2013.2	74.9
0°-90°	2687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2687.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	853	848	850	849	848	81
15°	821	819	824	827	827	232
25°	763	762	774	776	778	352
35°	677	682	696	705	712	423
45°	569	578	598	626	644	439
55°	439	454	497	542	564	392
65°	288	316	386	440	466	284
75°	131	186	264	270	261	141
85°	28	46	48	46	44	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	851.8	851.8	851.8	851.8	851.8
2.5°	855.8	850.5	851.8	851.8	849.2
5°	853.1	847.8	850.5	849.2	847.8
7.5°	847.8	843.9	846.5	846.5	845.2
10°	841.2	837.3	839.9	841.2	841.2
12.5°	832.0	829.3	833.3	833.3	834.6
15°	821.4	818.7	824.0	826.7	826.7
17.5°	809.5	808.2	814.8	816.1	817.4
20°	796.2	794.9	802.9	802.9	805.5
22.5°	780.4	779.1	789.6	789.6	792.3
25°	763.2	761.9	773.8	776.4	777.7
27.5°	744.7	743.3	755.2	759.2	761.9
30°	723.5	723.5	736.7	742.0	746.0
32.5°	699.7	703.7	715.6	723.5	728.8
35°	677.2	682.5	695.7	705.0	711.6
37.5°	652.1	657.4	671.9	683.8	691.8
40°	625.6	632.2	649.4	662.7	674.6
42.5°	599.2	605.8	624.3	644.1	660.0
45°	568.7	578.0	597.8	625.6	644.1
47.5°	538.3	547.6	572.7	607.1	625.6
50°	506.6	517.2	547.6	587.3	607.1
52.5°	473.5	485.4	523.8	566.1	585.9
55°	439.1	453.7	497.3	542.3	563.5
57.5°	403.4	419.3	470.9	518.5	541.0
60°	366.4	386.2	443.1	493.4	517.2
62.5°	328.0	351.8	415.3	466.9	492.0
65°	288.3	316.1	386.2	440.5	465.6
67.5°	247.3	284.4	357.1	414.0	439.1
70°	206.3	250.0	326.7	384.9	410.0
72.5°	168.0	218.2	296.3	350.5	355.8
75°	130.9	186.5	264.5	269.8	260.6
77.5°	97.9	154.8	218.2	194.4	193.1
80°	70.1	124.3	140.2	144.2	145.5
82.5°	46.3	93.9	91.3	93.9	92.6
85°	27.8	46.3	47.6	46.3	43.6
87.5°	13.2	17.2	13.2	11.9	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)