

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: P263802

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263802  
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-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2669.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

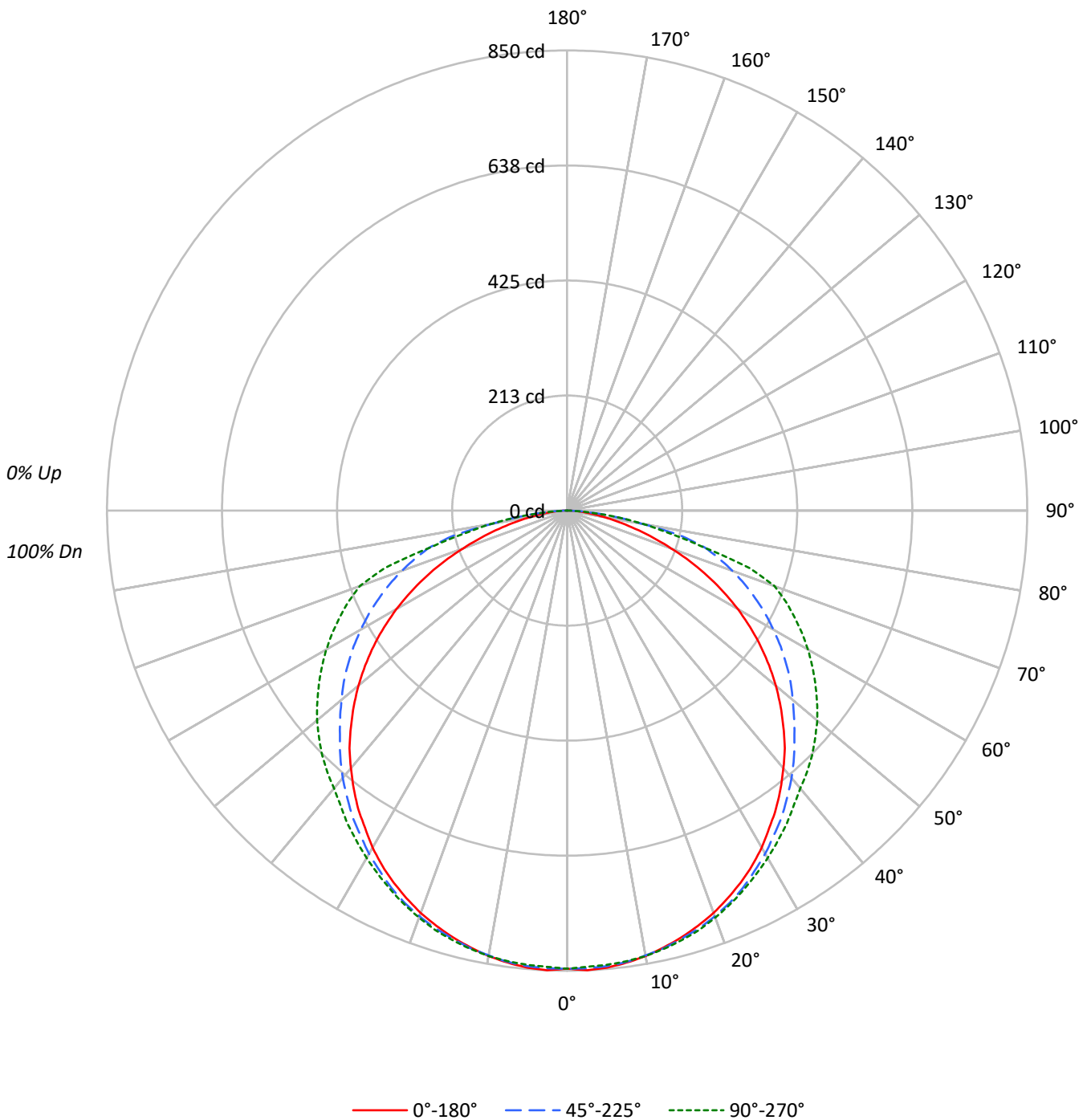
Input Watts (W): 29.109  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1138	1138	1138
5°	1145	1141	1137
10°	1142	1140	1142
15°	1137	1140	1144
20°	1132	1142	1146
25°	1125	1141	1147
30°	1117	1137	1151
35°	1105	1135	1161
40°	1091	1133	1177
45°	1075	1130	1217
50°	1053	1138	1262
55°	1023	1159	1313
60°	979	1184	1382
65°	912	1221	1472
70°	806	1277	1602
75°	676	1366	1345
80°	539	1079	1120
85°	426	730	670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.2	3.0
10°-20°	231.0	8.7
20°-30°	352.8	13.2
30°-40°	431.3	16.2
40°-50°	461.6	17.3
50°-60°	442.8	16.6
60°-70°	373.9	14.0
70°-80°	238.9	9.0
80°-90°	56.5	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°	664.0	24.9
0°-40°	1095.2	41.0
0°-60°	1999.7	74.9
0°-90°	2669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2669.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	847	842	845	844	842	80
15°	816	813	818	821	821	230
25°	758	757	769	771	772	349
35°	673	678	691	700	707	421
45°	565	574	594	621	640	436
55°	436	451	494	539	560	389
65°	286	314	384	438	462	282
75°	130	185	263	268	259	140
85°	28	46	47	46	43	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	846.1	846.1	846.1	846.1	846.1
2.5°	850.0	844.8	846.1	846.1	843.5
5°	847.4	842.2	844.8	843.5	842.2
7.5°	842.2	838.2	840.8	840.8	839.5
10°	835.6	831.6	834.3	835.6	835.6
12.5°	826.4	823.8	827.7	827.7	829.0
15°	815.9	813.2	818.5	821.1	821.1
17.5°	804.1	802.7	809.3	810.6	811.9
20°	790.9	789.6	797.5	797.5	800.1
22.5°	775.1	773.8	784.3	784.3	787.0
25°	758.1	756.8	768.6	771.2	772.5
27.5°	739.7	738.4	750.2	754.1	756.8
30°	718.7	718.7	731.8	737.0	741.0
32.5°	695.0	698.9	710.8	718.7	723.9
35°	672.7	677.9	691.1	700.3	706.8
37.5°	647.7	653.0	667.4	679.2	687.1
40°	621.4	628.0	645.1	658.2	670.0
42.5°	595.2	601.7	620.1	639.8	655.6
45°	564.9	574.1	593.8	621.4	639.8
47.5°	534.7	543.9	568.9	603.0	621.4
50°	503.2	513.7	543.9	583.3	603.0
52.5°	470.3	482.2	520.3	562.3	582.0
55°	436.2	450.6	494.0	538.7	559.7
57.5°	400.7	416.5	467.7	515.0	537.3
60°	363.9	383.6	440.1	490.1	513.7
62.5°	325.8	349.5	412.5	463.8	488.7
65°	286.4	314.0	383.6	437.5	462.5
67.5°	245.7	282.5	354.7	411.2	436.2
70°	205.0	248.3	324.5	382.3	407.3
72.5°	166.9	216.8	294.3	348.2	353.4
75°	130.1	185.2	262.8	268.0	258.8
77.5°	97.2	153.7	216.8	193.1	191.8
80°	69.6	123.5	139.3	143.2	144.5
82.5°	46.0	93.3	90.7	93.3	92.0
85°	27.6	46.0	47.3	46.0	43.4
87.5°	13.1	17.1	13.1	11.8	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)