

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: P263649

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263649  
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-LD5-30-RDP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2225.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

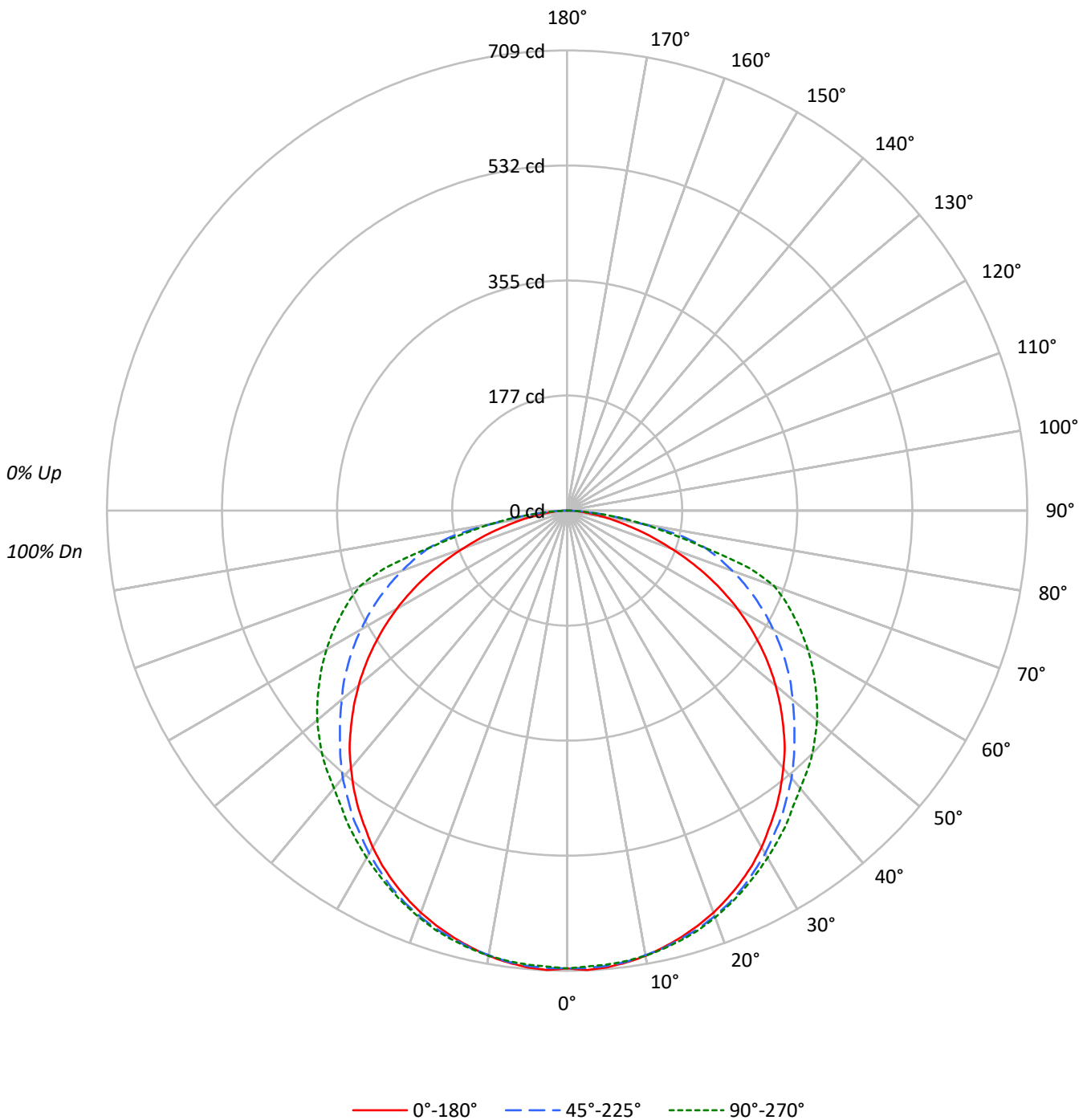
Input Watts (W): 20.181  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	949	949	949
5°	954	951	948
10°	952	950	952
15°	947	950	953
20°	944	952	955
25°	938	951	956
30°	931	948	960
35°	921	946	968
40°	910	945	981
45°	896	942	1015
50°	878	949	1052
55°	853	966	1095
60°	816	987	1152
65°	760	1018	1227
70°	672	1064	1336
75°	564	1139	1122
80°	449	900	934
85°	355	608	557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.9	3.0
10°-20°	192.5	8.7
20°-30°	294.1	13.2
30°-40°	359.5	16.2
40°-50°	384.8	17.3
50°-60°	369.1	16.6
60°-70°	311.7	14.0
70°-80°	199.2	9.0
80°-90°	47.1	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°	553.5	24.9
0°-40°	913.0	41.0
0°-60°	1667.0	74.9
0°-90°	2225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	705	705	705	705	705	
5°	706	702	704	703	702	67
15°	680	678	682	684	684	192
25°	632	631	641	643	644	291
35°	561	565	576	584	589	351
45°	471	479	495	518	533	363
55°	364	376	412	449	467	325
65°	239	262	320	365	386	235
75°	108	154	219	223	216	117
85°	23	38	39	38	36	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	705.3	705.3	705.3	705.3	705.3
2.5°	708.6	704.2	705.3	705.3	703.2
5°	706.4	702.1	704.2	703.2	702.1
7.5°	702.1	698.8	701.0	701.0	699.9
10°	696.6	693.3	695.5	696.6	696.6
12.5°	688.9	686.7	690.0	690.0	691.1
15°	680.2	678.0	682.3	684.5	684.5
17.5°	670.3	669.2	674.7	675.8	676.9
20°	659.3	658.2	664.8	664.8	667.0
22.5°	646.2	645.1	653.9	653.9	656.1
25°	632.0	630.9	640.7	642.9	644.0
27.5°	616.6	615.5	625.4	628.7	630.9
30°	599.1	599.1	610.1	614.4	617.7
32.5°	579.4	582.7	592.5	599.1	603.5
35°	560.8	565.2	576.1	583.8	589.2
37.5°	540.0	544.3	556.4	566.2	572.8
40°	518.1	523.5	537.8	548.7	558.6
42.5°	496.2	501.6	517.0	533.4	546.5
45°	471.0	478.6	495.1	518.1	533.4
47.5°	445.8	453.4	474.2	502.7	518.1
50°	419.5	428.2	453.4	486.3	502.7
52.5°	392.1	402.0	433.7	468.8	485.2
55°	363.6	375.7	411.8	449.1	466.6
57.5°	334.1	347.2	389.9	429.3	448.0
60°	303.4	319.8	366.9	408.5	428.2
62.5°	271.6	291.3	343.9	386.6	407.4
65°	238.8	261.8	319.8	364.7	385.5
67.5°	204.8	235.5	295.7	342.8	363.6
70°	170.9	207.0	270.5	318.7	339.5
72.5°	139.1	180.7	245.3	290.2	294.6
75°	108.4	154.4	219.1	223.4	215.8
77.5°	81.0	128.1	180.7	161.0	159.9
80°	58.0	103.0	116.1	119.4	120.5
82.5°	38.3	77.8	75.6	77.8	76.7
85°	23.0	38.3	39.4	38.3	36.1
87.5°	11.0	14.2	11.0	9.9	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)