

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: P260932

Luminaire Tested: **24CZ-LD5-30SE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-30SE-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2804.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

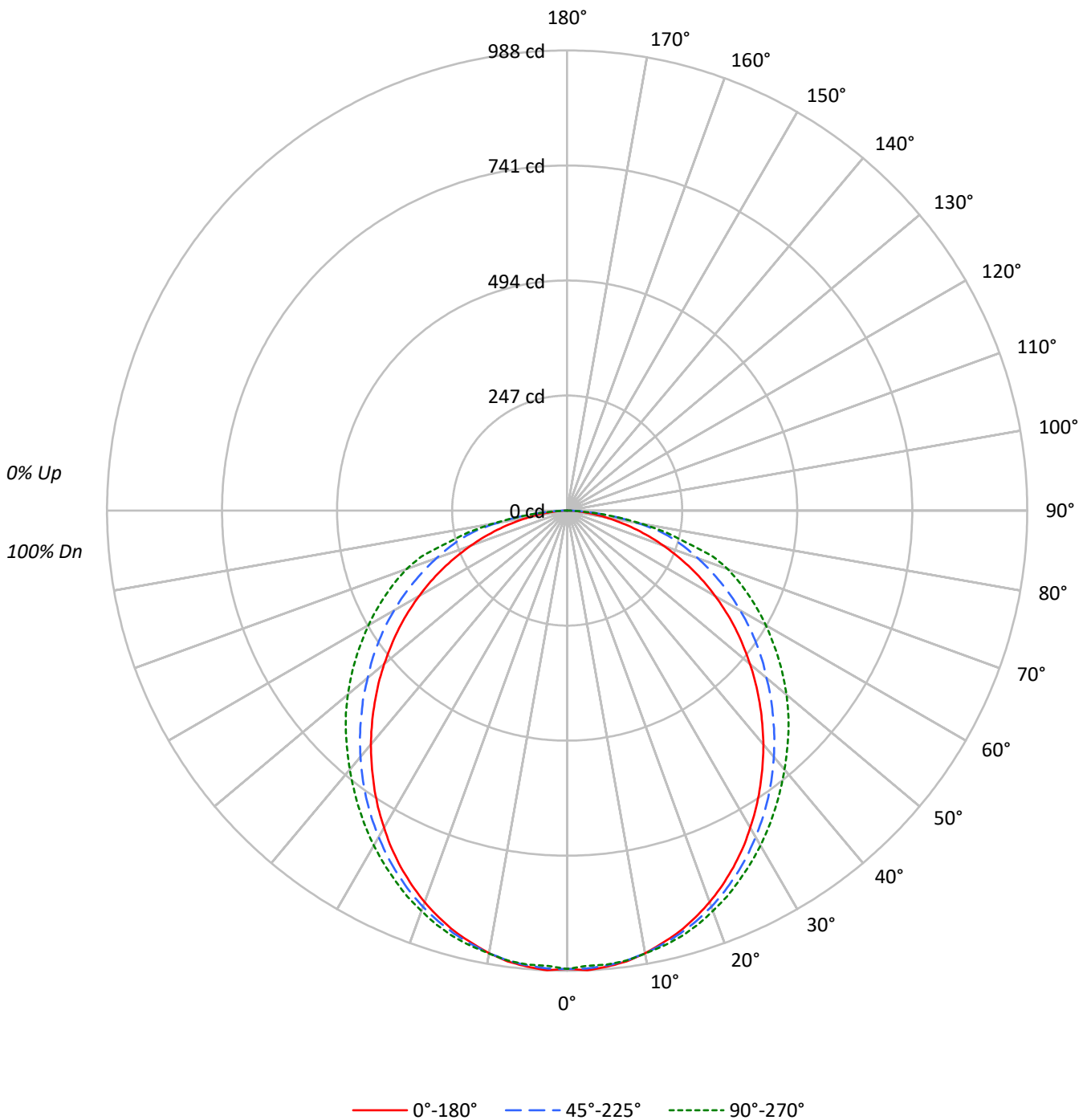
Input Watts (W): 22.227  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1324	1324	1324
5°	1328	1324	1321
10°	1318	1318	1320
15°	1303	1309	1319
20°	1281	1296	1310
25°	1254	1279	1300
30°	1222	1257	1290
35°	1187	1236	1281
40°	1152	1212	1275
45°	1113	1189	1279
50°	1073	1170	1286
55°	1034	1162	1300
60°	987	1155	1325
65°	935	1155	1369
70°	865	1175	1443
75°	774	1228	1372
80°	647	1175	1257
85°	489	905	860



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.0	3.3
10°-20°	264.7	9.4
20°-30°	395.7	14.1
30°-40°	469.4	16.7
40°-50°	483.1	17.2
50°-60°	443.2	15.8
60°-70°	358.3	12.8
70°-80°	232.6	8.3
80°-90°	64.1	2.3
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°	753.3	26.9
0°-40°	1222.7	43.6
0°-60°	2149.0	76.6
0°-90°	2804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2804.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	983	976	980	979	978	93
15°	935	931	940	944	947	263
25°	845	846	861	869	876	389
35°	723	729	753	769	780	452
45°	585	594	625	655	672	451
55°	441	454	495	536	554	394
65°	294	311	363	411	430	290
75°	149	177	236	264	264	158
85°	32	54	59	57	56	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	984.1	984.1	984.1	984.1	984.1
2.5°	987.9	980.2	984.1	983.1	978.3
5°	983.1	976.4	980.2	979.3	978.3
7.5°	976.4	969.7	974.5	973.5	974.5
10°	964.9	959.1	964.9	965.8	965.8
12.5°	950.5	945.7	953.3	955.3	957.2
15°	935.1	931.3	939.9	943.7	946.6
17.5°	915.9	913.0	923.6	928.4	932.2
20°	894.8	893.8	905.3	910.1	914.9
22.5°	870.8	870.8	884.2	890.0	896.7
25°	844.8	845.8	861.2	868.9	875.6
27.5°	817.0	818.0	836.2	845.8	853.5
30°	786.3	790.1	809.3	821.8	830.4
32.5°	755.6	760.4	781.5	795.9	805.5
35°	722.9	728.7	752.7	769.0	779.6
37.5°	689.3	696.0	722.0	740.2	752.7
40°	655.7	663.4	690.3	711.4	725.8
42.5°	620.2	628.8	658.6	683.6	698.9
45°	584.7	594.3	625.0	654.8	672.0
47.5°	549.2	560.7	593.3	626.0	644.2
50°	512.7	524.2	558.8	596.2	614.4
52.5°	476.2	489.6	528.0	566.4	584.7
55°	440.7	454.1	495.4	535.7	554.0
57.5°	404.2	417.6	462.7	505.0	523.2
60°	366.7	382.1	429.1	472.3	492.5
62.5°	330.3	346.6	396.5	442.6	461.8
65°	293.8	311.1	362.9	410.9	430.1
67.5°	256.3	276.5	330.3	379.2	399.4
70°	219.9	241.9	298.6	347.5	366.7
72.5°	184.3	208.3	266.9	316.8	328.3
75°	148.8	176.7	236.2	264.0	264.0
77.5°	115.2	145.9	201.6	212.2	217.9
80°	83.5	117.1	151.7	164.2	162.2
82.5°	55.7	89.3	108.5	108.5	105.6
85°	31.7	53.8	58.6	56.6	55.7
87.5°	13.4	20.2	18.2	14.4	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)