

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: P263362

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-30-SQP-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1879.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

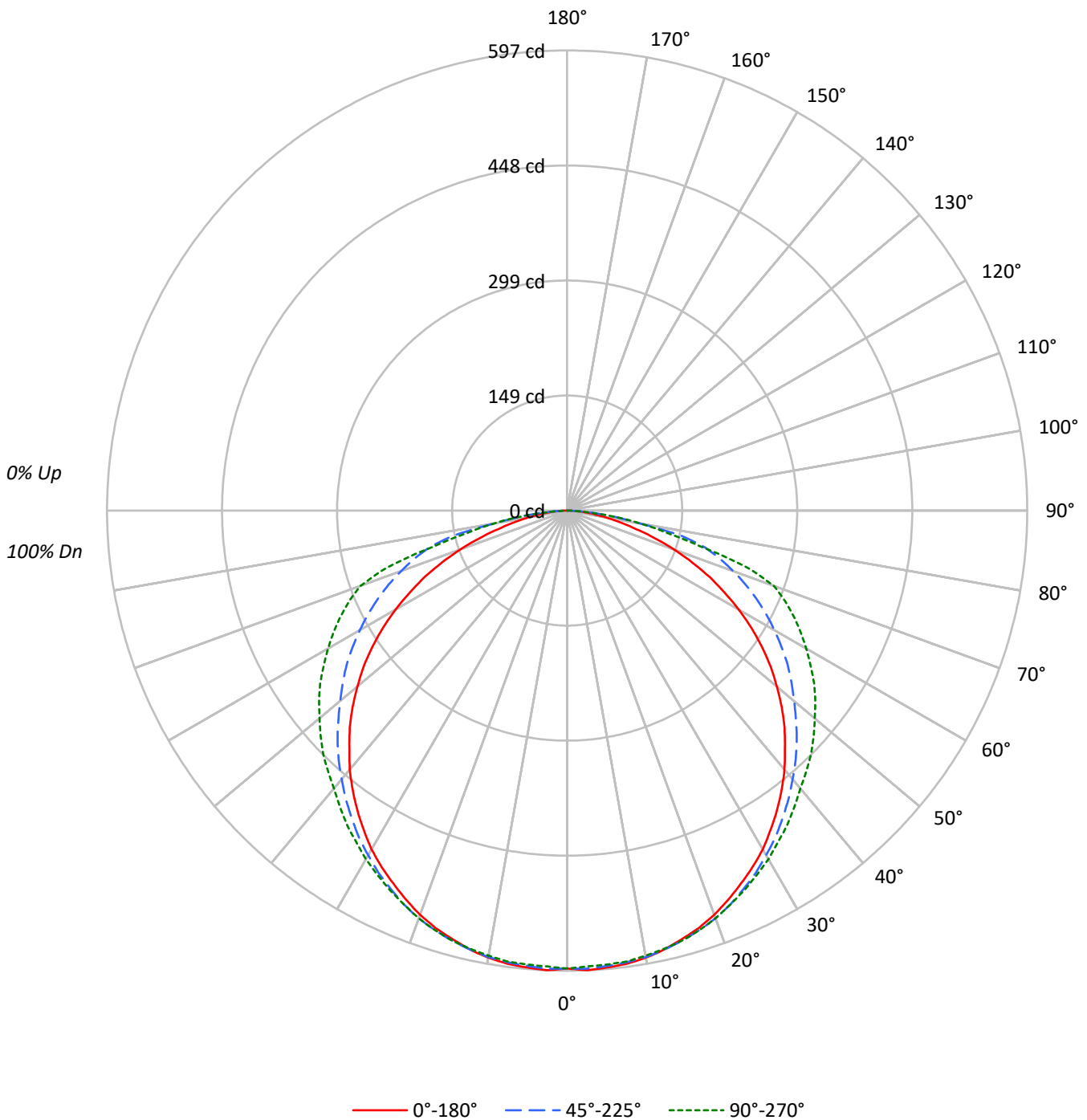
Input Watts (W): 20.088  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	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°	799	799	799
5°	804	801	798
10°	805	804	801
15°	802	804	804
20°	799	806	806
25°	792	804	807
30°	789	802	811
35°	780	800	818
40°	771	800	827
45°	759	801	851
50°	744	804	878
55°	724	820	917
60°	692	836	964
65°	649	862	1032
70°	580	901	1122
75°	479	964	928
80°	391	745	752
85°	315	494	465



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	3.0
10°-20°	162.8	8.7
20°-30°	248.8	13.2
30°-40°	304.3	16.2
40°-50°	325.6	17.3
50°-60°	311.8	16.6
60°-70°	263.7	14.0
70°-80°	167.2	8.9
80°-90°	38.5	2.0
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°	468.0	24.9
0°-40°	772.3	41.1
0°-60°	1409.6	75.0
0°-90°	1879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1879.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	595	592	593	592	591	57
15°	576	575	578	578	578	163
25°	534	534	542	544	544	246
35°	475	478	487	494	498	297
45°	399	406	421	439	447	307
55°	309	318	349	378	391	275
65°	204	223	271	308	324	201
75°	92	130	185	184	179	100
85°	20	31	32	29	30	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	594.0	594.0	594.0	594.0	594.0
2.5°	596.9	594.0	595.0	594.0	592.0
5°	595.0	592.0	593.0	592.0	591.1
7.5°	593.0	590.1	591.1	590.1	590.1
10°	589.1	586.2	588.2	587.2	586.2
12.5°	583.3	581.4	583.3	582.3	582.3
15°	575.5	574.6	577.5	577.5	577.5
17.5°	567.8	566.8	570.7	570.7	570.7
20°	558.1	557.1	562.9	562.9	562.9
22.5°	546.4	545.5	553.2	553.2	553.2
25°	533.8	533.8	541.6	543.5	543.5
27.5°	521.2	521.2	529.9	532.8	532.8
30°	507.6	507.6	516.3	520.2	522.2
32.5°	491.1	493.0	502.8	507.6	509.5
35°	474.6	477.5	487.2	494.0	497.9
37.5°	457.1	460.0	471.7	479.5	484.3
40°	438.7	442.6	455.2	464.9	470.7
42.5°	418.3	424.1	438.7	451.3	459.1
45°	398.9	405.7	421.2	438.7	447.4
47.5°	377.6	385.3	402.8	425.1	433.8
50°	355.2	363.0	384.3	409.6	419.3
52.5°	332.9	341.6	366.9	394.1	405.7
55°	308.6	318.3	349.4	378.5	391.1
57.5°	283.4	295.1	330.0	361.1	374.6
60°	257.2	271.8	310.6	343.6	358.1
62.5°	230.0	247.5	291.2	326.1	341.6
65°	203.8	223.2	270.8	307.7	324.2
67.5°	175.7	199.9	250.4	290.2	305.7
70°	147.5	175.7	229.1	269.8	285.3
72.5°	119.4	153.3	207.7	244.6	244.6
75°	92.2	130.1	185.4	184.4	178.6
77.5°	69.9	108.7	152.4	130.1	131.0
80°	50.5	87.4	96.1	96.1	97.1
82.5°	34.0	67.0	62.1	61.1	63.1
85°	20.4	31.1	32.0	29.1	30.1
87.5°	9.7	10.7	8.7	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)