

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: P260839

Luminaire Tested: **24CZ-LD5-30-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260839
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-LD5-30-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2627.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

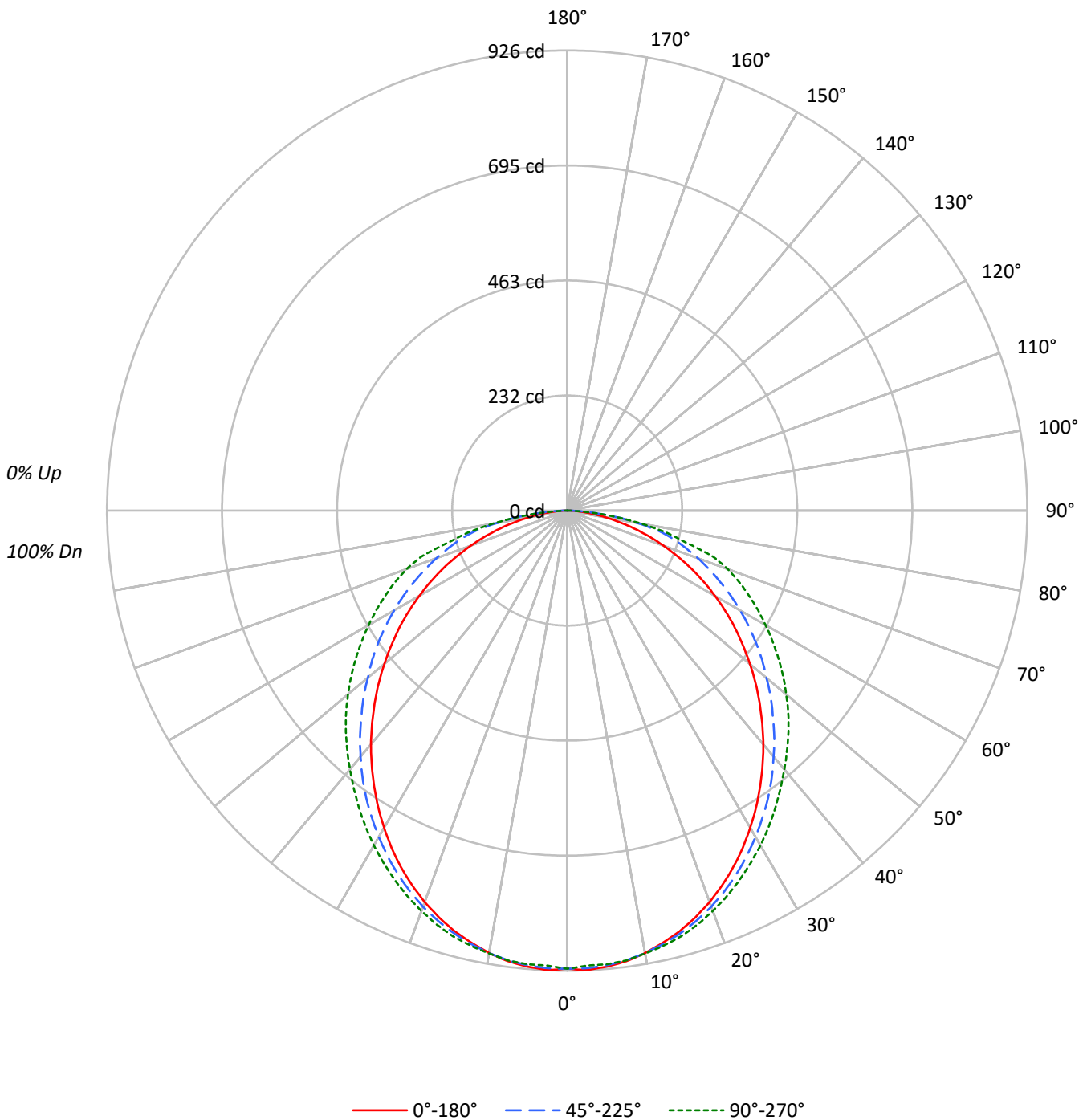
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1240	1240	1240
5°	1244	1240	1238
10°	1235	1235	1236
15°	1220	1227	1235
20°	1200	1214	1227
25°	1175	1198	1218
30°	1145	1178	1209
35°	1112	1158	1200
40°	1079	1136	1194
45°	1042	1114	1198
50°	1005	1096	1205
55°	968	1089	1217
60°	925	1082	1242
65°	876	1082	1283
70°	810	1100	1352
75°	725	1150	1286
80°	607	1101	1178
85°	459	848	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.3
10°-20°	248.0	9.4
20°-30°	370.7	14.1
30°-40°	439.8	16.7
40°-50°	452.6	17.2
50°-60°	415.2	15.8
60°-70°	335.7	12.8
70°-80°	217.9	8.3
80°-90°	60.1	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°	705.8	26.9
0°-40°	1145.5	43.6
0°-60°	2013.3	76.6
0°-90°	2627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	921	915	918	917	916	87
15°	876	872	881	884	887	247
25°	792	792	807	814	820	364
35°	677	683	705	720	730	424
45°	548	557	586	613	630	423
55°	413	425	464	502	519	369
65°	275	291	340	385	403	272
75°	139	166	221	247	247	148
85°	30	50	55	53	52	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.9	921.9	921.9	921.9	921.9
2.5°	925.5	918.3	921.9	921.0	916.5
5°	921.0	914.7	918.3	917.4	916.5
7.5°	914.7	908.4	912.9	912.0	912.9
10°	904.0	898.6	904.0	904.9	904.9
12.5°	890.5	886.0	893.2	895.0	896.8
15°	876.1	872.5	880.6	884.2	886.9
17.5°	858.1	855.4	865.3	869.8	873.4
20°	838.3	837.4	848.2	852.7	857.2
22.5°	815.8	815.8	828.4	833.8	840.1
25°	791.5	792.4	806.8	814.0	820.3
27.5°	765.4	766.3	783.4	792.4	799.6
30°	736.7	740.3	758.2	769.9	778.0
32.5°	707.9	712.4	732.2	745.6	754.6
35°	677.3	682.7	705.2	720.5	730.4
37.5°	645.8	652.1	676.4	693.5	705.2
40°	614.3	621.5	646.7	666.5	680.0
42.5°	581.0	589.1	617.0	640.4	654.8
45°	547.8	556.8	585.5	613.4	629.6
47.5°	514.5	525.3	555.9	586.4	603.5
50°	480.3	491.1	523.5	558.6	575.7
52.5°	446.1	458.7	494.7	530.7	547.8
55°	412.8	425.4	464.1	501.9	519.0
57.5°	378.7	391.3	433.5	473.1	490.2
60°	343.6	358.0	402.1	442.5	461.4
62.5°	309.4	324.7	371.5	414.6	432.6
65°	275.2	291.4	340.0	385.0	403.0
67.5°	240.2	259.0	309.4	355.3	374.2
70°	206.0	226.7	279.7	325.6	343.6
72.5°	172.7	195.2	250.0	296.8	307.6
75°	139.4	165.5	221.3	247.3	247.3
77.5°	107.9	136.7	188.9	198.8	204.2
80°	78.3	109.7	142.1	153.8	152.0
82.5°	52.2	83.6	101.6	101.6	98.9
85°	29.7	50.4	54.9	53.1	52.2
87.5°	12.6	18.9	17.1	13.5	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)