

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: P260837

Luminaire Tested: **24CZ-LD5-30-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260837
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2406.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

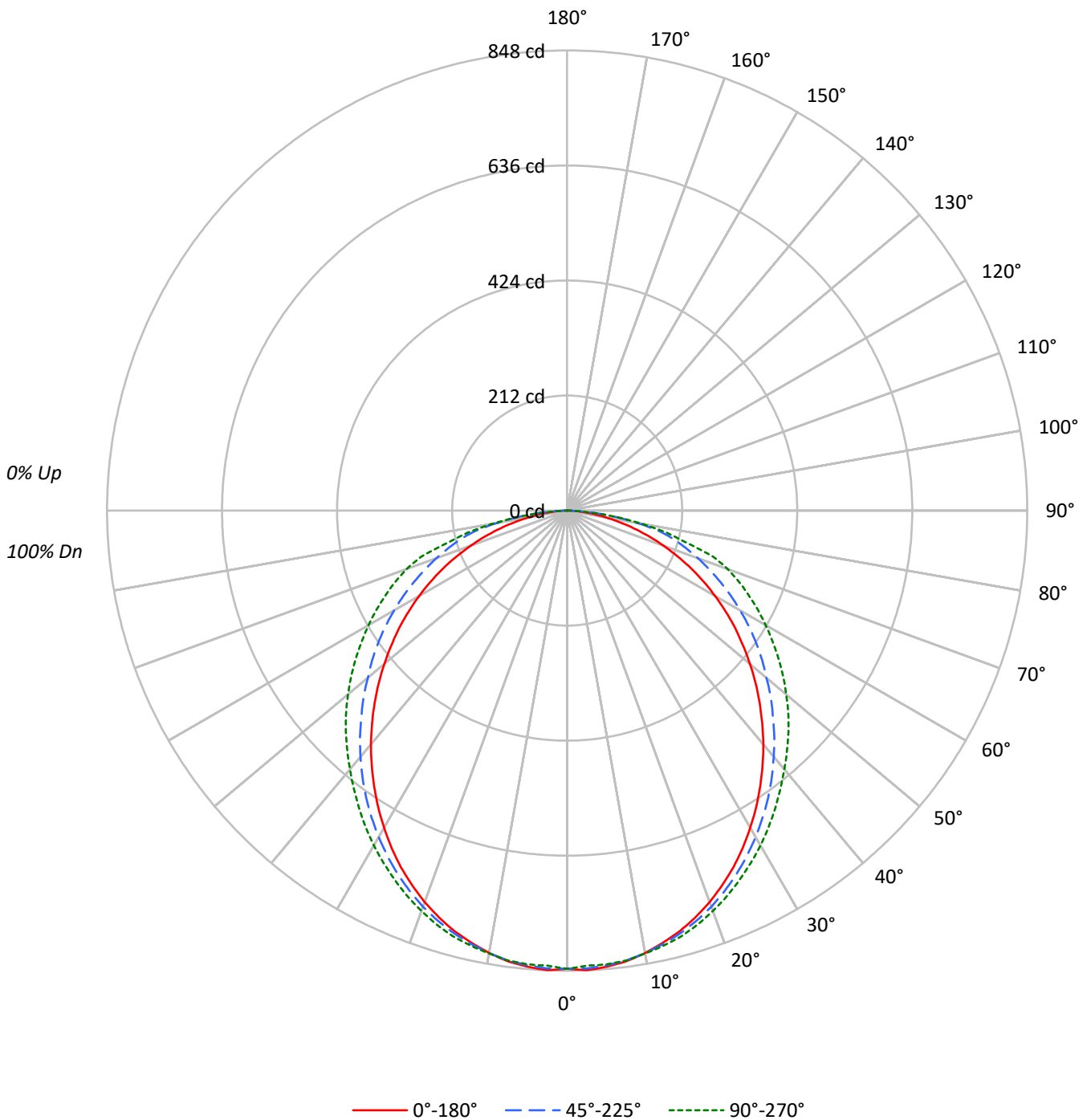
Input Watts (W): 19.623
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1136	1136	1136
5°	1139	1136	1134
10°	1131	1131	1132
15°	1118	1123	1131
20°	1099	1112	1124
25°	1076	1097	1115
30°	1048	1079	1107
35°	1019	1061	1099
40°	988	1040	1094
45°	955	1020	1097
50°	921	1003	1104
55°	887	997	1115
60°	847	991	1137
65°	803	991	1175
70°	742	1008	1238
75°	664	1054	1177
80°	556	1009	1079
85°	420	777	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.3
10°-20°	227.1	9.4
20°-30°	339.5	14.1
30°-40°	402.7	16.7
40°-50°	414.5	17.2
50°-60°	380.3	15.8
60°-70°	307.5	12.8
70°-80°	199.6	8.3
80°-90°	55.0	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°	646.4	26.9
0°-40°	1049.1	43.6
0°-60°	1843.9	76.6
0°-90°	2406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	844	838	841	840	839	80
15°	802	799	806	810	812	226
25°	725	726	739	746	751	334
35°	620	625	646	660	669	388
45°	502	510	536	562	577	387
55°	378	390	425	460	475	338
65°	252	267	311	353	369	249
75°	128	152	203	226	226	136
85°	27	46	50	49	48	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	844.4	844.4	844.4	844.4	844.4
2.5°	847.7	841.1	844.4	843.6	839.4
5°	843.6	837.8	841.1	840.3	839.4
7.5°	837.8	832.0	836.1	835.3	836.1
10°	827.9	823.0	827.9	828.7	828.7
12.5°	815.5	811.4	818.0	819.7	821.3
15°	802.4	799.1	806.5	809.8	812.3
17.5°	785.9	783.4	792.5	796.6	799.9
20°	767.8	766.9	776.8	780.9	785.1
22.5°	747.2	747.2	758.7	763.6	769.4
25°	724.9	725.8	738.9	745.5	751.3
27.5°	701.0	701.9	717.5	725.8	732.3
30°	674.7	678.0	694.5	705.2	712.6
32.5°	648.3	652.4	670.6	682.9	691.2
35°	620.3	625.3	645.8	659.9	668.9
37.5°	591.5	597.2	619.5	635.1	645.8
40°	562.6	569.2	592.3	610.4	622.8
42.5°	532.2	539.6	565.1	586.5	599.7
45°	501.7	509.9	536.3	561.8	576.7
47.5°	471.2	481.1	509.1	537.1	552.8
50°	439.9	449.8	479.4	511.6	527.2
52.5°	408.6	420.1	453.1	486.0	501.7
55°	378.1	389.7	425.1	459.7	475.3
57.5°	346.8	358.3	397.1	433.3	449.0
60°	314.7	327.9	368.2	405.3	422.6
62.5°	283.4	297.4	340.2	379.8	396.2
65°	252.1	266.9	311.4	352.6	369.1
67.5°	220.0	237.3	283.4	325.4	342.7
70°	188.6	207.6	256.2	298.2	314.7
72.5°	158.2	178.8	229.0	271.8	281.7
75°	127.7	151.6	202.7	226.5	226.5
77.5°	98.9	125.2	173.0	182.1	187.0
80°	71.7	100.5	130.2	140.9	139.2
82.5°	47.8	76.6	93.1	93.1	90.6
85°	27.2	46.1	50.3	48.6	47.8
87.5°	11.5	17.3	15.7	12.4	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)