

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: P260928

Luminaire Tested: **24CZ-LD5-30SE-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260928
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2471.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

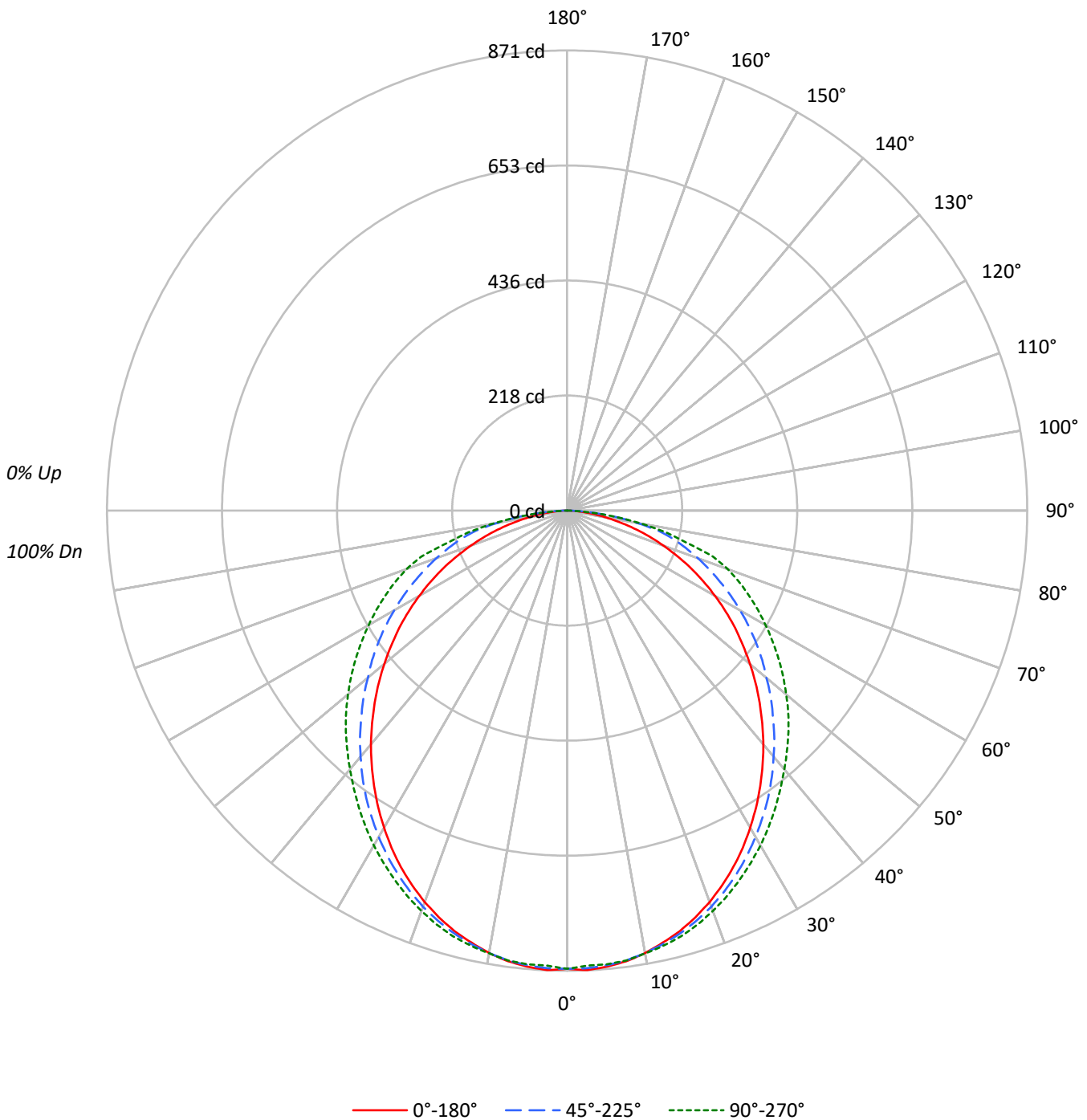
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1167	1167	1167
5°	1170	1167	1164
10°	1162	1162	1163
15°	1148	1154	1162
20°	1129	1142	1154
25°	1105	1127	1146
30°	1077	1108	1137
35°	1046	1089	1128
40°	1015	1068	1123
45°	980	1048	1127
50°	946	1031	1133
55°	911	1024	1145
60°	870	1018	1168
65°	824	1018	1207
70°	762	1035	1271
75°	682	1082	1210
80°	570	1036	1108
85°	431	797	758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	3.3
10°-20°	233.2	9.4
20°-30°	348.7	14.1
30°-40°	413.6	16.7
40°-50°	425.7	17.2
50°-60°	390.6	15.8
60°-70°	315.8	12.8
70°-80°	204.9	8.3
80°-90°	56.5	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°	663.9	26.9
0°-40°	1077.5	43.6
0°-60°	1893.8	76.6
0°-90°	2471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	866	860	864	863	862	82
15°	824	821	828	832	834	232
25°	744	745	759	766	772	343
35°	637	642	663	678	687	398
45°	515	524	551	577	592	398
55°	388	400	437	472	488	347
65°	259	274	320	362	379	256
75°	131	156	208	233	233	139
85°	28	47	52	50	49	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.2	867.2	867.2	867.2	867.2
2.5°	870.6	863.8	867.2	866.3	862.1
5°	866.3	860.4	863.8	863.0	862.1
7.5°	860.4	854.5	858.7	857.9	858.7
10°	850.3	845.2	850.3	851.1	851.1
12.5°	837.6	833.4	840.1	841.8	843.5
15°	824.0	820.7	828.3	831.7	834.2
17.5°	807.1	804.6	813.9	818.1	821.5
20°	788.5	787.7	797.8	802.0	806.3
22.5°	767.4	767.4	779.2	784.3	790.2
25°	744.5	745.4	758.9	765.7	771.6
27.5°	720.0	720.8	736.9	745.4	752.1
30°	692.9	696.3	713.2	724.2	731.8
32.5°	665.8	670.1	688.7	701.4	709.8
35°	637.1	642.1	663.3	677.7	687.0
37.5°	607.5	613.4	636.2	652.3	663.3
40°	577.8	584.6	608.3	626.9	639.6
42.5°	546.5	554.2	580.4	602.4	615.9
45°	515.2	523.7	550.8	577.0	592.2
47.5°	483.9	494.1	522.9	551.6	567.7
50°	451.8	461.9	492.4	525.4	541.5
52.5°	419.6	431.5	465.3	499.2	515.2
55°	388.3	400.2	436.6	472.1	488.2
57.5°	356.2	368.0	407.8	445.0	461.1
60°	323.2	336.7	378.2	416.3	434.0
62.5°	291.0	305.4	349.4	390.0	406.9
65°	258.9	274.1	319.8	362.1	379.0
67.5°	225.9	243.7	291.0	334.2	352.0
70°	193.7	213.2	263.1	306.3	323.2
72.5°	162.4	183.6	235.2	279.2	289.3
75°	131.1	155.7	208.1	232.7	232.7
77.5°	101.5	128.6	177.7	187.0	192.1
80°	73.6	103.2	133.7	144.7	143.0
82.5°	49.1	78.7	95.6	95.6	93.1
85°	27.9	47.4	51.6	49.9	49.1
87.5°	11.8	17.8	16.1	12.7	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)