

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: P276017

Luminaire Tested: **24CZ2-30-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2232.3 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

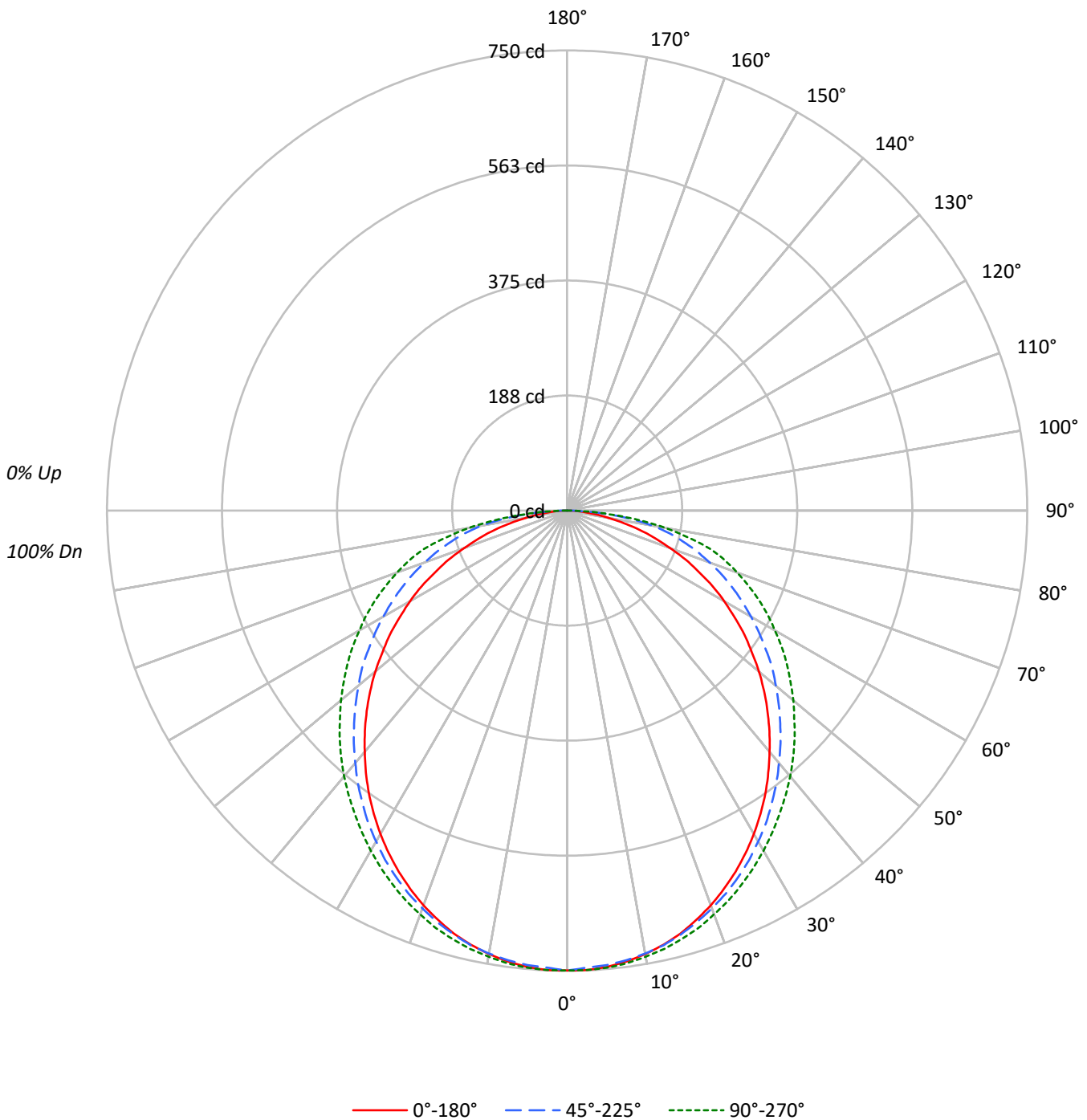
Input Watts (W): 22.262526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1008	1008	1008
5°	1008	1004	1010
10°	1003	1002	1009
15°	994	996	1007
20°	980	988	1003
25°	964	979	999
30°	946	968	994
35°	925	956	991
40°	902	943	993
45°	879	934	998
50°	855	929	1007
55°	828	928	1026
60°	796	932	1052
65°	754	947	1098
70°	701	970	1161
75°	639	1018	1259
80°	525	1097	1258
85°	403	1013	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	3.2
10°-20°	202.4	9.1
20°-30°	304.5	13.6
30°-40°	364.9	16.3
40°-50°	380.3	17.0
50°-60°	353.8	15.9
60°-70°	291.4	13.1
70°-80°	198.5	8.9
80°-90°	65.5	2.9
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°	577.8	25.9
0°-40°	942.7	42.2
0°-60°	1676.8	75.1
0°-90°	2232.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2232.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	746	746	744	747	748	71
15°	714	714	715	722	723	201
25°	650	653	659	670	673	299
35°	563	570	582	598	604	352
45°	462	472	491	516	524	356
55°	353	365	396	427	437	315
65°	237	257	297	332	345	235
75°	123	150	196	231	242	130
85°	26	51	66	70	70	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.5	749.5	749.5	749.5	749.5
2.5°	749.5	749.5	745.7	749.5	749.5
5°	746.5	746.5	743.5	747.2	748.0
7.5°	741.3	742.0	739.0	743.5	744.3
10°	733.8	734.6	733.1	737.6	738.3
12.5°	724.9	725.6	725.6	730.8	731.6
15°	713.7	714.5	715.2	721.9	722.7
17.5°	699.6	701.8	703.3	711.5	713.0
20°	684.7	686.9	689.9	698.8	700.3
22.5°	667.5	670.5	675.7	685.4	687.6
25°	649.6	652.6	659.3	670.5	672.7
27.5°	629.5	634.0	642.2	654.1	657.1
30°	608.7	613.1	622.8	635.5	640.0
32.5°	586.3	592.3	603.5	617.6	622.1
35°	563.2	569.9	581.8	597.5	603.5
37.5°	538.6	546.1	560.2	577.4	584.8
40°	513.3	522.2	537.1	557.3	565.5
42.5°	488.0	496.2	514.8	536.4	545.3
45°	461.9	471.6	491.0	515.5	524.5
47.5°	435.1	444.8	467.9	493.9	502.1
50°	408.3	417.9	444.0	471.6	481.3
52.5°	379.2	391.9	421.7	449.2	458.9
55°	353.1	365.1	395.6	426.9	437.3
57.5°	323.3	337.5	371.0	403.8	415.0
60°	295.8	310.7	346.4	380.0	391.1
62.5°	267.5	283.8	321.8	356.1	368.8
65°	236.9	257.0	297.3	332.3	344.9
67.5°	209.3	230.2	272.7	308.4	319.6
70°	178.1	203.4	246.6	282.4	295.0
72.5°	151.2	176.6	222.0	257.0	269.7
75°	122.9	150.5	195.9	231.0	242.1
77.5°	94.6	125.2	170.6	197.4	201.2
80°	67.8	99.8	141.6	157.2	162.4
82.5°	47.7	76.7	104.3	114.7	117.7
85°	26.1	50.7	65.6	70.0	70.0
87.5°	11.2	21.6	26.1	26.8	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)