

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: P276180

Luminaire Tested: **24CZ2-30HE-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276180
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: 24CZ2-30HE-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2564.6 lumens
Efficiency: N/A
Efficacy: 129.5 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

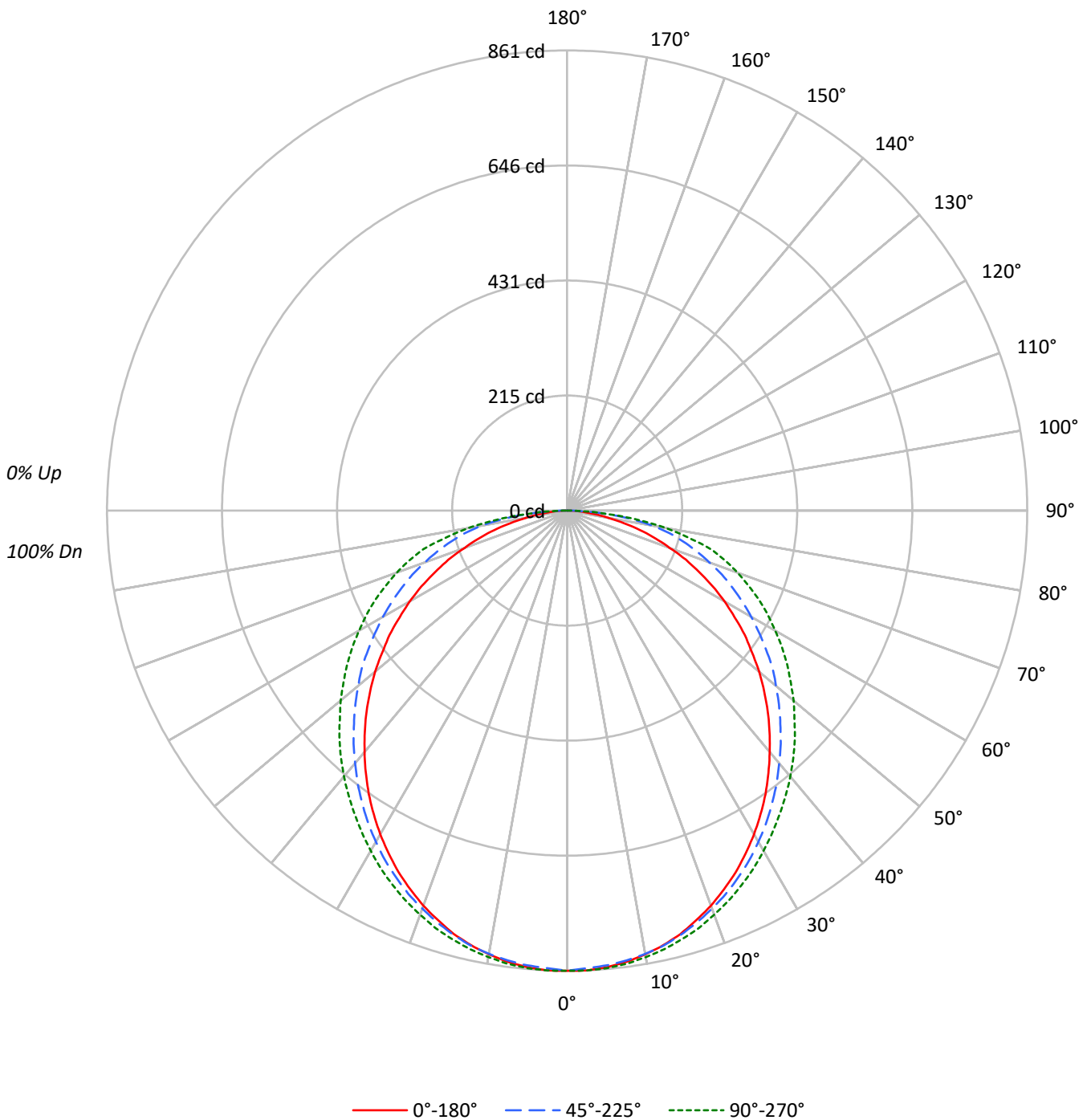
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	89	86	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	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1159	1159	1159
5°	1158	1154	1161
10°	1152	1151	1159
15°	1142	1145	1156
20°	1126	1135	1152
25°	1108	1125	1147
30°	1086	1112	1142
35°	1063	1098	1139
40°	1036	1084	1141
45°	1010	1073	1147
50°	982	1068	1157
55°	952	1066	1179
60°	914	1071	1209
65°	867	1087	1262
70°	805	1114	1333
75°	734	1170	1446
80°	604	1260	1446
85°	463	1162	1243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	3.2
10°-20°	232.5	9.1
20°-30°	349.9	13.6
30°-40°	419.3	16.3
40°-50°	436.9	17.0
50°-60°	406.5	15.9
60°-70°	334.8	13.1
70°-80°	228.0	8.9
80°-90°	75.3	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°	663.8	25.9
0°-40°	1083.1	42.2
0°-60°	1926.5	75.1
0°-90°	2564.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2564.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	858	858	854	858	859	81
15°	820	821	822	829	830	231
25°	746	750	758	770	773	344
35°	647	655	668	686	693	404
45°	531	542	564	592	603	409
55°	406	419	454	490	502	362
65°	272	295	342	382	396	270
75°	141	173	225	265	278	149
85°	30	58	75	80	80	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.1	861.1	861.1	861.1	861.1
2.5°	861.1	861.1	856.8	861.1	861.1
5°	857.6	857.6	854.2	858.5	859.3
7.5°	851.6	852.5	849.1	854.2	855.1
10°	843.1	843.9	842.2	847.4	848.2
12.5°	832.8	833.7	833.7	839.7	840.5
15°	820.0	820.8	821.7	829.4	830.2
17.5°	803.7	806.3	808.0	817.4	819.1
20°	786.6	789.2	792.6	802.9	804.6
22.5°	766.9	770.3	776.3	787.4	790.0
25°	746.4	749.8	757.5	770.3	772.9
27.5°	723.3	728.4	737.8	751.5	754.9
30°	699.3	704.4	715.6	730.1	735.2
32.5°	673.6	680.5	693.3	709.6	714.7
35°	647.1	654.8	668.5	686.4	693.3
37.5°	618.8	627.4	643.7	663.3	671.9
40°	589.7	600.0	617.1	640.2	649.6
42.5°	560.6	570.0	591.4	616.3	626.5
45°	530.7	541.8	564.1	592.3	602.6
47.5°	499.9	511.0	537.5	567.5	576.9
50°	469.0	480.2	510.1	541.8	552.9
52.5°	435.7	450.2	484.5	516.1	527.2
55°	405.7	419.4	454.5	490.4	502.4
57.5°	371.5	387.7	426.2	463.9	476.7
60°	339.8	356.9	398.0	436.5	449.4
62.5°	307.3	326.1	369.8	409.1	423.7
65°	272.2	295.3	341.5	381.7	396.3
67.5°	240.5	264.5	313.3	354.4	367.2
70°	204.6	233.7	283.3	324.4	338.9
72.5°	173.8	202.9	255.1	295.3	309.8
75°	141.2	172.9	225.1	265.3	278.2
77.5°	108.7	143.8	196.0	226.8	231.1
80°	77.9	114.7	162.6	180.6	186.6
82.5°	54.8	88.2	119.8	131.8	135.2
85°	30.0	58.2	75.3	80.5	80.5
87.5°	12.8	24.8	30.0	30.8	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)