

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: P277415

Luminaire Tested: **22CZ2-34HE-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

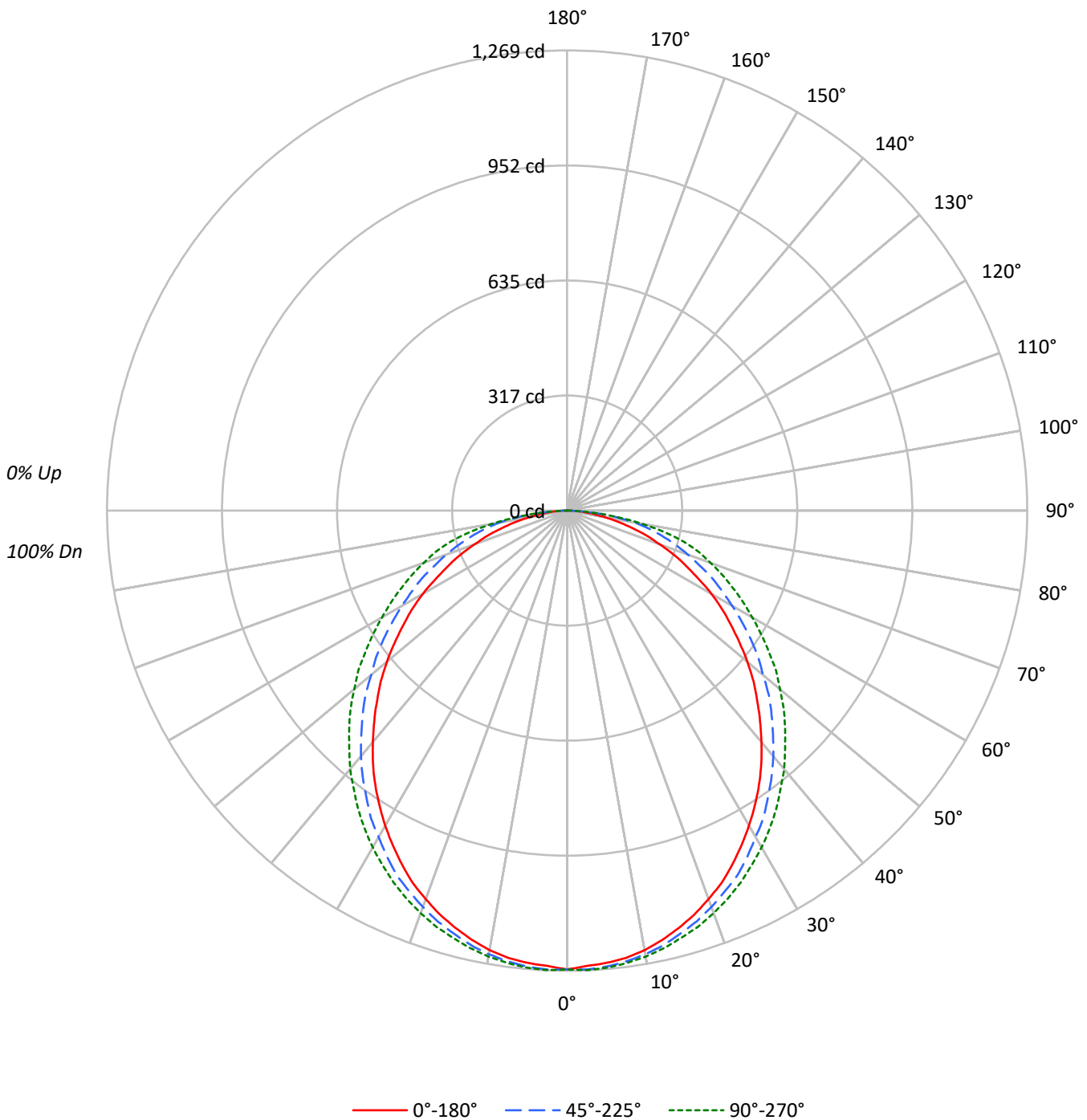
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3405	3405	3405
5°	3382	3409	3418
10°	3363	3394	3412
15°	3318	3364	3396
20°	3265	3331	3383
25°	3199	3297	3361
30°	3118	3230	3333
35°	3031	3171	3302
40°	2928	3108	3270
45°	2821	3035	3235
50°	2717	2952	3207
55°	2589	2898	3185
60°	2474	2828	3174
65°	2308	2811	3210
70°	2126	2787	3305
75°	1918	2826	3477
80°	1660	2910	3268
85°	1374	2442	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	3.4
10°-20°	340.5	9.6
20°-30°	509.5	14.4
30°-40°	603.4	17.1
40°-50°	614.9	17.4
50°-60°	551.1	15.6
60°-70°	431.5	12.2
70°-80°	278.2	7.9
80°-90°	82.2	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°	969.7	27.5
0°-40°	1573.0	44.5
0°-60°	2739.1	77.6
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1252	1255	1262	1264	1265	119
15°	1191	1198	1208	1218	1219	336
25°	1078	1087	1110	1125	1132	496
35°	923	934	965	995	1005	577
45°	741	758	797	839	850	573
55°	552	570	618	661	679	495
65°	362	384	442	484	504	360
75°	184	212	272	318	334	198
85°	44	61	79	79	79	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.3	1265.3	1265.3	1265.3	1265.3
2.5°	1257.0	1260.3	1266.9	1268.6	1268.6
5°	1252.1	1255.4	1262.0	1263.6	1265.3
7.5°	1243.9	1245.5	1253.7	1257.0	1258.7
10°	1230.7	1234.0	1242.2	1247.1	1248.8
12.5°	1212.5	1217.5	1227.4	1234.0	1235.6
15°	1191.1	1197.7	1207.6	1217.5	1219.1
17.5°	1168.1	1174.7	1187.8	1199.4	1202.7
20°	1140.1	1148.3	1163.1	1176.3	1181.2
22.5°	1112.1	1118.6	1136.8	1153.2	1158.2
25°	1077.5	1087.3	1110.4	1125.2	1131.8
27.5°	1041.2	1052.7	1075.8	1095.6	1102.2
30°	1003.3	1014.8	1039.6	1064.3	1072.5
32.5°	963.8	977.0	1006.6	1031.3	1039.6
35°	922.6	934.1	965.4	995.1	1005.0
37.5°	879.8	889.6	925.9	957.2	967.1
40°	833.6	846.8	884.7	920.9	930.8
42.5°	787.5	802.3	840.2	879.8	889.6
45°	741.4	757.8	797.4	838.6	850.1
47.5°	696.9	710.1	754.5	794.1	810.6
50°	649.1	662.3	705.1	749.6	766.1
52.5°	599.7	617.8	663.9	706.8	726.5
55°	551.9	570.0	617.8	660.6	678.8
57.5°	507.4	522.3	571.7	616.2	634.3
60°	459.6	472.8	525.5	573.3	589.8
62.5°	408.6	428.3	482.7	527.2	547.0
65°	362.4	383.9	441.5	484.4	504.1
67.5°	319.6	339.4	395.4	441.5	462.9
70°	270.2	296.5	354.2	400.3	420.1
72.5°	230.6	253.7	313.0	359.2	380.6
75°	184.5	212.5	271.8	318.0	334.4
77.5°	146.6	174.6	230.6	266.9	275.1
80°	107.1	135.1	187.8	205.9	210.9
82.5°	72.5	98.8	135.1	140.0	141.7
85°	44.5	61.0	79.1	79.1	79.1
87.5°	21.4	24.7	28.0	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)