

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: P277246

Luminaire Tested: **22CZ2-34HE-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3338.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

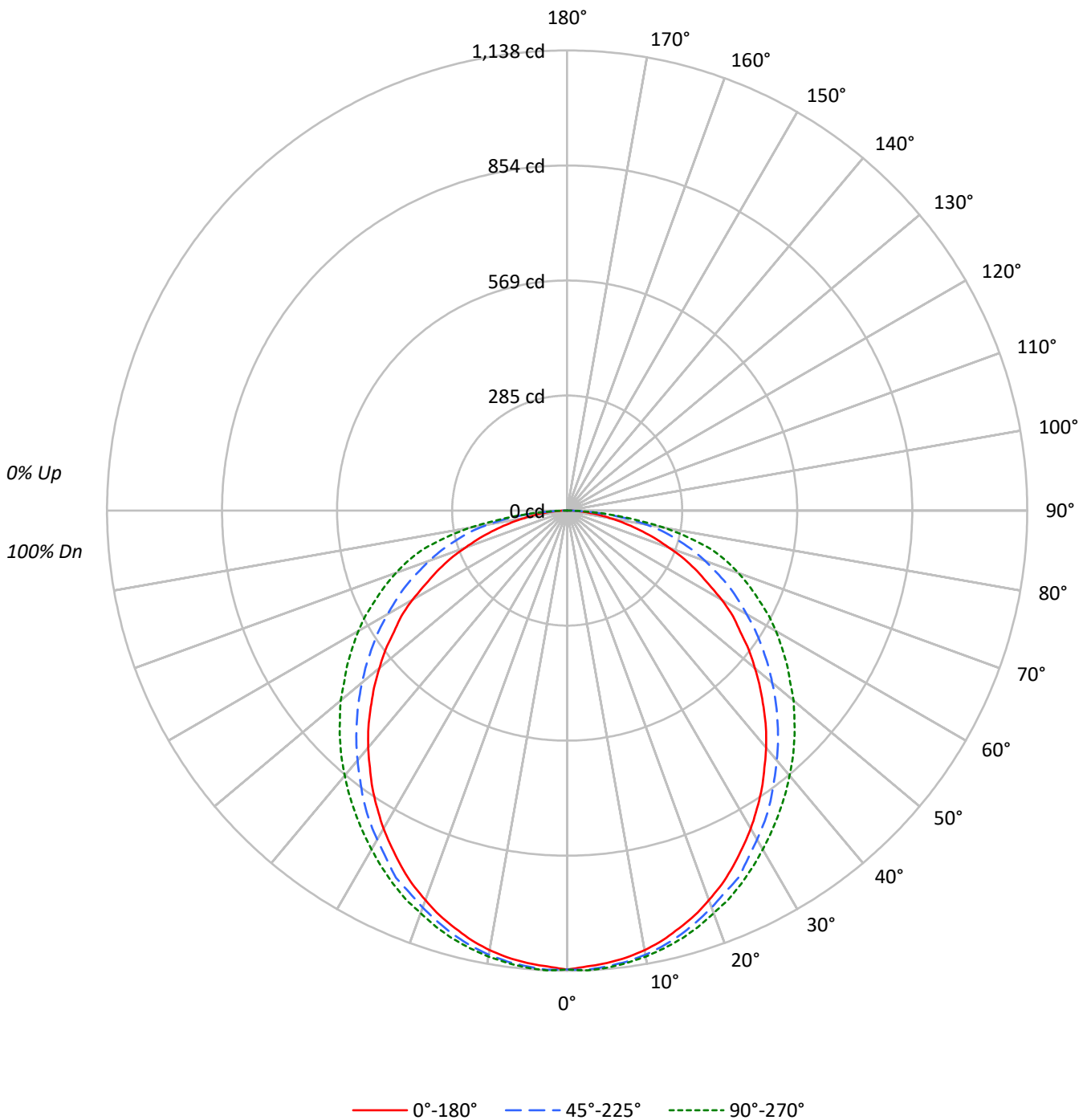
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90		92	90	87		89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	35	30		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3054	3054	3054
5°	3035	3057	3066
10°	3016	3048	3061
15°	2979	3025	3052
20°	2935	2991	3034
25°	2882	2975	3024
30°	2822	2919	3006
35°	2757	2881	3000
40°	2689	2833	3006
45°	2613	2800	3025
50°	2537	2771	3060
55°	2450	2759	3113
60°	2378	2758	3209
65°	2259	2803	3326
70°	2106	2856	3541
75°	1930	2955	3825
80°	1680	3079	3767
85°	1470	2739	2992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.2
10°-20°	305.7	9.2
20°-30°	459.0	13.7
30°-40°	548.4	16.4
40°-50°	570.3	17.1
50°-60°	528.6	15.8
60°-70°	433.5	13.0
70°-80°	293.1	8.8
80°-90°	92.1	2.8
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°	872.0	26.1
0°-40°	1420.5	42.6
0°-60°	2519.3	75.5
0°-90°	3338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1124	1125	1132	1133	1135	107
15°	1069	1074	1086	1092	1096	302
25°	971	979	1002	1013	1018	447
35°	839	851	877	903	913	525
45°	687	700	736	779	795	530
55°	522	539	588	641	664	469
65°	355	374	440	498	522	351
75°	186	217	284	342	368	197
85°	48	66	89	99	97	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.0	1135.0	1135.0	1135.0	1135.0
2.5°	1128.4	1131.7	1136.6	1138.3	1138.3
5°	1123.5	1125.1	1131.7	1133.3	1135.0
7.5°	1115.3	1118.6	1125.1	1126.8	1128.4
10°	1103.8	1107.1	1115.3	1118.6	1120.2
12.5°	1089.0	1092.3	1102.1	1107.1	1108.7
15°	1069.3	1074.2	1085.7	1092.3	1095.6
17.5°	1049.6	1054.5	1066.0	1075.9	1079.1
20°	1024.9	1036.4	1044.6	1057.8	1059.4
22.5°	1000.3	1006.9	1021.6	1034.8	1041.4
25°	970.7	978.9	1001.9	1013.4	1018.4
27.5°	939.5	951.0	969.1	987.2	993.7
30°	908.3	916.5	939.5	960.9	967.4
32.5°	873.8	885.3	910.0	931.3	941.2
35°	839.3	850.8	877.1	903.4	913.2
37.5°	801.5	814.7	841.0	872.2	885.3
40°	765.4	775.3	806.5	844.3	855.8
42.5°	727.6	739.1	772.0	813.0	826.2
45°	686.6	699.7	735.8	778.6	795.0
47.5°	647.2	660.3	699.7	742.4	762.1
50°	606.1	622.5	661.9	711.2	730.9
52.5°	566.7	581.5	625.8	676.7	694.8
55°	522.3	538.7	588.0	640.6	663.6
57.5°	486.2	497.7	551.9	606.1	629.1
60°	441.8	456.6	512.5	570.0	596.2
62.5°	394.2	418.8	476.3	535.5	561.7
65°	354.8	374.5	440.2	497.7	522.3
67.5°	313.7	335.1	399.1	459.9	487.8
70°	267.7	295.7	363.0	423.8	450.1
72.5°	226.7	256.2	325.2	384.3	412.3
75°	185.6	216.8	284.2	341.6	367.9
77.5°	146.2	180.7	246.4	290.7	307.2
80°	108.4	141.3	198.7	230.0	243.1
82.5°	75.6	103.5	146.2	162.6	165.9
85°	47.6	65.7	88.7	98.6	96.9
87.5°	21.4	26.3	32.9	36.1	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)