

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: P275643

Luminaire Tested: **14CZ2-35-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3232.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

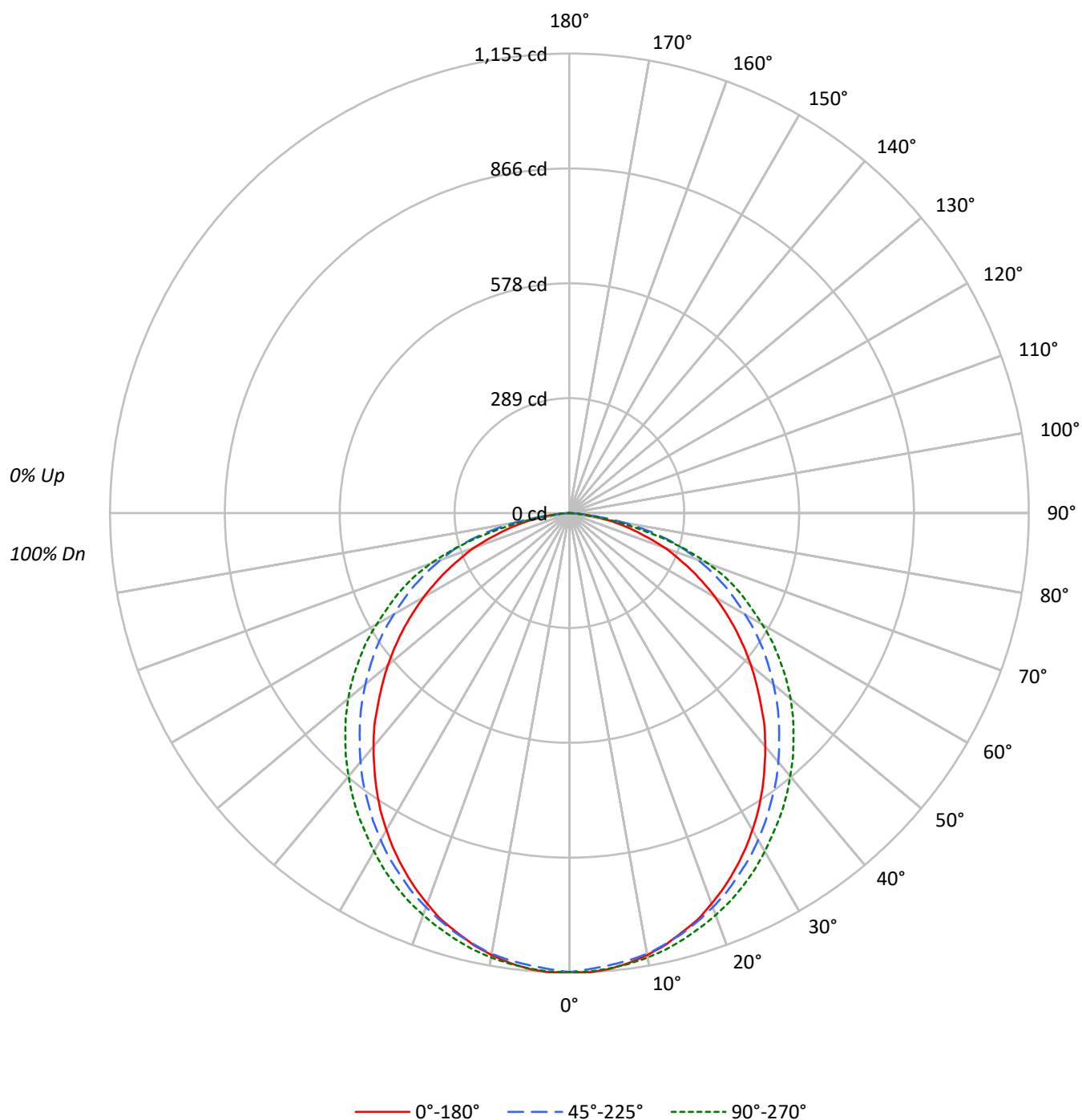
Input Watts (W): 27.435
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	109	104	100	96	106	102	98	94		97	94	91		94	91	89		90	88	86
2	99	90	84	78	96	89	82	77		85	80	75		82	77	73		79	75	72
3	90	79	71	65	87	78	70	64		75	68	63		72	66	62		69	65	61
4	82	70	61	55	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	55	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	35		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	33	29		39	33	28
10	53	40	32	26	52	39	31	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3105	3105	3105
5°	3108	3082	3104
10°	3083	3074	3100
15°	3040	3049	3089
20°	2992	3019	3079
25°	2931	2983	3069
30°	2858	2948	3052
35°	2780	2906	3043
40°	2691	2871	3034
45°	2592	2836	3031
50°	2496	2804	3039
55°	2391	2782	3030
60°	2277	2743	3010
65°	2143	2735	3010
70°	2017	2710	2925
75°	1750	2649	2499
80°	1415	2135	1664
85°	939	741	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.4
10°-20°	310.0	9.6
20°-30°	465.0	14.4
30°-40°	554.8	17.2
40°-50°	573.5	17.7
50°-60°	523.6	16.2
60°-70°	412.1	12.7
70°-80°	239.9	7.4
80°-90°	44.2	1.4
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°	884.0	27.4
0°-40°	1438.8	44.5
0°-60°	2535.9	78.5
0°-90°	3232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1151	1147	1141	1151	1149	109
15°	1091	1093	1094	1109	1109	308
25°	987	992	1005	1029	1034	454
35°	846	857	885	918	926	529
45°	681	704	745	787	796	526
55°	510	537	593	636	646	456
65°	336	372	430	463	473	334
75°	168	208	255	250	240	179
85°	30	43	24	19	16	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.8	1153.8	1153.8	1153.8	1153.8
2.5°	1155.4	1152.2	1147.4	1155.4	1153.8
5°	1150.6	1147.4	1141.0	1150.6	1149.0
7.5°	1141.0	1137.7	1134.5	1144.2	1142.6
10°	1128.1	1126.5	1124.9	1136.1	1134.5
12.5°	1112.1	1112.1	1110.5	1123.3	1123.3
15°	1091.3	1092.9	1094.5	1108.9	1108.9
17.5°	1072.0	1070.4	1075.2	1091.3	1092.9
20°	1044.8	1048.0	1054.4	1073.6	1075.2
22.5°	1017.6	1020.8	1032.0	1051.2	1056.0
25°	987.1	991.9	1004.7	1028.8	1033.6
27.5°	955.1	961.5	979.1	1004.7	1009.5
30°	919.8	929.4	948.7	977.5	982.3
32.5°	884.6	894.2	918.2	947.1	953.5
35°	846.1	857.3	884.6	918.2	926.2
37.5°	806.0	820.5	852.5	886.2	895.8
40°	766.0	782.0	817.3	852.5	863.7
42.5°	725.9	741.9	780.4	820.5	831.7
45°	681.0	703.5	745.1	786.8	796.4
47.5°	637.8	661.8	708.3	750.0	762.8
50°	596.1	620.2	669.8	713.1	725.9
52.5°	552.8	578.5	631.4	676.2	687.5
55°	509.6	536.8	592.9	636.2	645.8
57.5°	466.3	495.2	552.8	594.5	605.7
60°	423.0	453.5	509.6	551.2	559.3
62.5°	379.8	411.8	469.5	506.4	514.4
65°	336.5	371.8	429.5	463.1	472.7
67.5°	294.9	330.1	386.2	418.2	426.3
70°	256.4	288.4	344.5	368.6	371.8
72.5°	208.3	248.4	302.9	315.7	307.7
75°	168.3	208.3	254.8	250.0	240.4
77.5°	128.2	168.3	198.7	182.7	169.9
80°	91.3	131.4	137.8	113.8	107.4
82.5°	59.3	91.3	76.9	59.3	48.1
85°	30.4	43.3	24.0	19.2	16.0
87.5°	9.6	6.4	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)