

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: P275603

Luminaire Tested: **14CZ2-35-S-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275603
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3233.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

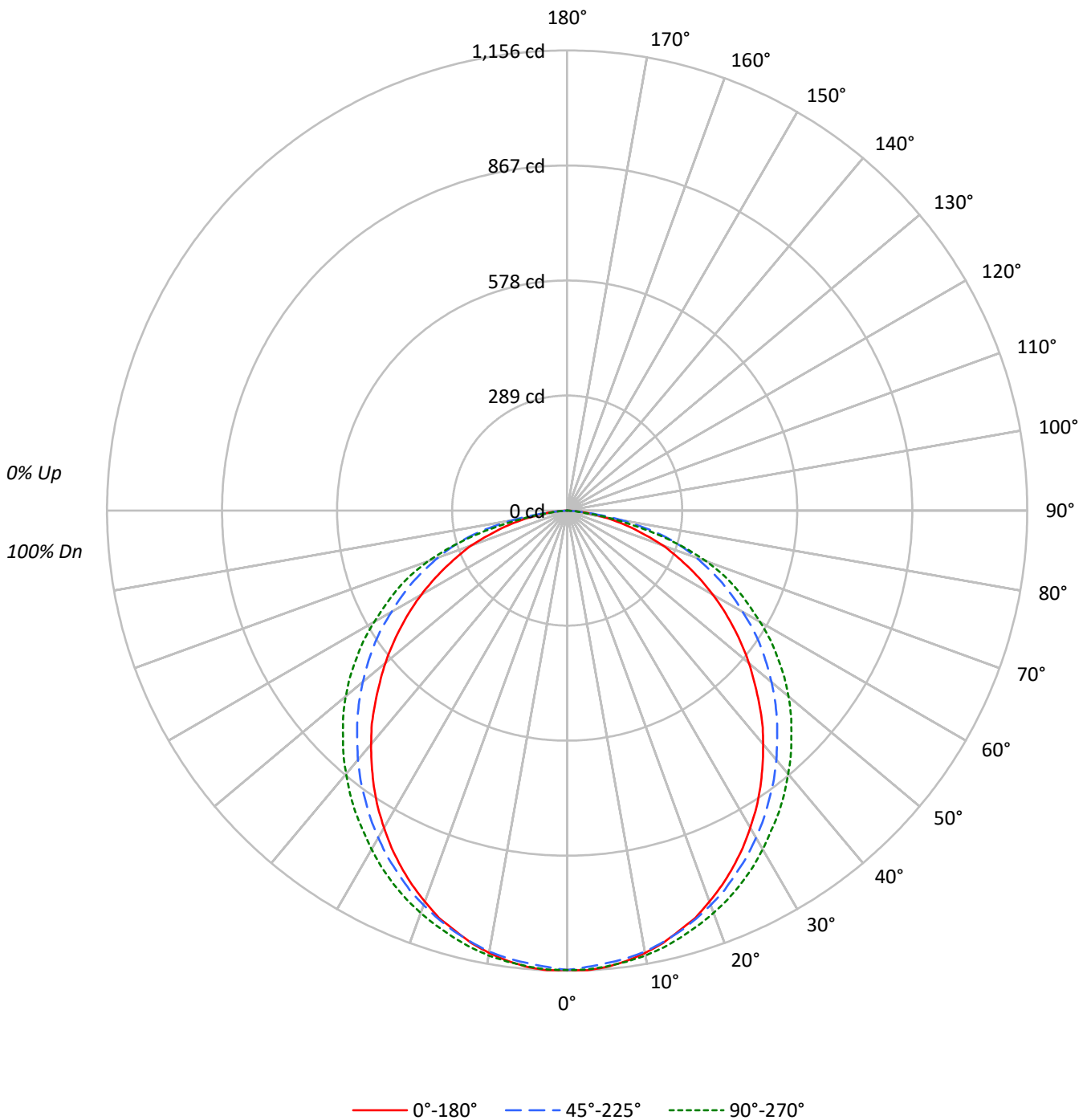
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	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	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3106	3106	3106
5°	3109	3083	3105
10°	3084	3075	3101
15°	3041	3050	3090
20°	2993	3020	3080
25°	2932	2984	3070
30°	2859	2948	3053
35°	2780	2907	3044
40°	2692	2872	3035
45°	2593	2837	3032
50°	2496	2805	3040
55°	2391	2783	3031
60°	2278	2743	3011
65°	2143	2735	3011
70°	2018	2711	2926
75°	1750	2650	2499
80°	1416	2137	1664
85°	942	741	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.4
10°-20°	310.1	9.6
20°-30°	465.2	14.4
30°-40°	554.9	17.2
40°-50°	573.7	17.7
50°-60°	523.8	16.2
60°-70°	412.2	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°	884.3	27.4
0°-40°	1439.2	44.5
0°-60°	2536.7	78.5
0°-90°	3233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1151	1148	1141	1151	1149	109
15°	1092	1093	1095	1109	1109	308
25°	987	992	1005	1029	1034	455
35°	846	858	885	918	926	529
45°	681	704	745	787	797	526
55°	510	537	593	636	646	456
65°	337	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°	1154.1	1154.1	1154.1	1154.1	1154.1
2.5°	1155.7	1152.5	1147.7	1155.7	1154.1
5°	1150.9	1147.7	1141.3	1150.9	1149.3
7.5°	1141.3	1138.1	1134.9	1144.5	1142.9
10°	1128.5	1126.9	1125.3	1136.5	1134.9
12.5°	1112.5	1112.5	1110.8	1123.7	1123.7
15°	1091.6	1093.2	1094.8	1109.2	1109.2
17.5°	1072.4	1070.8	1075.6	1091.6	1093.2
20°	1045.1	1048.3	1054.7	1074.0	1075.6
22.5°	1017.9	1021.1	1032.3	1051.5	1056.3
25°	987.4	992.2	1005.1	1029.1	1033.9
27.5°	955.4	961.8	979.4	1005.1	1009.9
30°	920.1	929.7	948.9	977.8	982.6
32.5°	884.8	894.4	918.5	947.3	953.8
35°	846.4	857.6	884.8	918.5	926.5
37.5°	806.3	820.7	852.8	886.4	896.1
40°	766.2	782.2	817.5	852.8	864.0
42.5°	726.1	742.2	780.6	820.7	831.9
45°	681.3	703.7	745.4	787.1	796.7
47.5°	638.0	662.0	708.5	750.2	763.0
50°	596.3	620.3	670.0	713.3	726.1
52.5°	553.0	578.7	631.6	676.4	687.7
55°	509.7	537.0	593.1	636.4	646.0
57.5°	466.5	495.3	553.0	594.7	605.9
60°	423.2	453.6	509.7	551.4	559.4
62.5°	379.9	412.0	469.7	506.5	514.5
65°	336.6	371.9	429.6	463.3	472.9
67.5°	294.9	330.2	386.3	418.4	426.4
70°	256.5	288.5	344.6	368.7	371.9
72.5°	208.4	248.5	303.0	315.8	307.8
75°	168.3	208.4	254.9	250.1	240.4
77.5°	128.2	168.3	198.8	182.7	169.9
80°	91.4	131.4	137.9	113.8	107.4
82.5°	59.3	91.4	76.9	59.3	48.1
85°	30.5	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)