

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: P238760

Luminaire Tested: **14EN-LD2-28-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-28-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3122.4 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

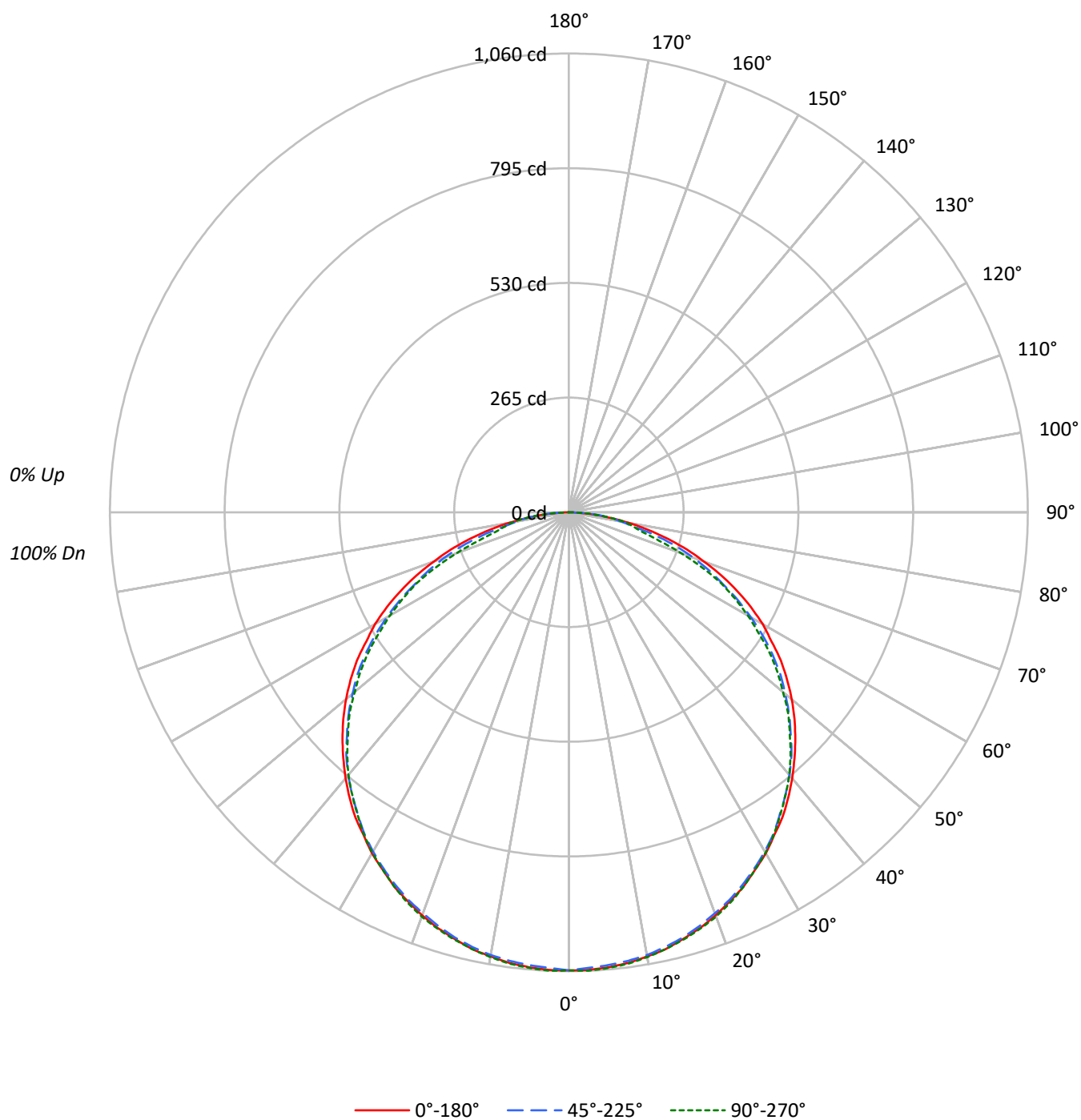
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	99	95		106	101	97	94		97	94	91		93	90	88		90	87	85
2	99	90	83	77		96	88	82	76		85	79	75		81	77	73		78	75	71
3	90	79	71	64		87	77	70	63		74	68	62		72	66	61		69	64	60
4	82	70	61	54		80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46		73	61	53	46		59	51	46		57	50	45		55	49	45
6	69	56	47	40		68	55	46	40		53	46	40		51	45	39		50	44	39
7	64	51	42	36		63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32		58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28		54	42	34	28		41	33	28		40	33	28		38	32	28
10	52	39	31	26		51	39	31	26		38	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2971	2971	2971
5°	2973	2959	2978
10°	2970	2961	2975
15°	2966	2956	2971
20°	2960	2945	2970
25°	2956	2941	2956
30°	2949	2933	2944
35°	2948	2914	2920
40°	2941	2905	2905
45°	2937	2878	2865
50°	2935	2849	2820
55°	2926	2812	2772
60°	2902	2726	2679
65°	2841	2611	2578
70°	2724	2507	2263
75°	2561	2257	1899
80°	2269	1949	2136
85°	1756	2020	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.2
10°-20°	287.8	9.2
20°-30°	438.7	14.0
30°-40°	534.2	17.1
40°-50°	561.7	18.0
50°-60°	515.6	16.5
60°-70°	396.1	12.7
70°-80°	221.1	7.1
80°-90°	67.1	2.1
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°	826.7	26.5
0°-40°	1360.9	43.6
0°-60°	2438.1	78.1
0°-90°	3122.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1055	1055	1050	1055	1057	100
15°	1020	1020	1017	1020	1022	288
25°	954	951	949	952	954	440
35°	860	857	850	852	852	538
45°	740	735	725	721	721	571
55°	598	593	574	565	566	533
65°	428	416	393	388	388	422
75°	236	224	208	180	175	249
85°	54	56	63	61	59	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.2	1058.2	1058.2	1058.2	1058.2
2.5°	1058.2	1058.2	1053.3	1058.2	1059.9
5°	1054.9	1054.9	1049.9	1054.9	1056.6
7.5°	1049.9	1049.9	1045.0	1048.3	1051.6
10°	1041.7	1041.7	1038.4	1041.7	1043.3
12.5°	1033.4	1031.8	1028.5	1031.8	1033.4
15°	1020.2	1020.2	1016.9	1020.2	1021.9
17.5°	1007.0	1005.4	1002.1	1007.0	1008.7
20°	990.5	988.9	985.6	990.5	993.8
22.5°	972.4	970.7	969.1	974.0	975.7
25°	954.2	950.9	949.2	952.5	954.2
27.5°	931.1	929.4	927.8	929.4	931.1
30°	909.6	906.3	904.7	904.7	908.0
32.5°	883.2	881.6	879.9	881.6	881.6
35°	860.1	856.8	850.2	851.8	851.8
37.5°	832.0	827.1	822.1	822.1	822.1
40°	802.3	799.0	792.4	790.8	792.4
42.5°	771.0	767.7	761.0	756.1	757.7
45°	739.6	734.6	724.7	721.4	721.4
47.5°	706.6	701.6	690.1	685.1	686.8
50°	671.9	665.3	652.1	645.5	645.5
52.5°	635.6	629.0	615.8	607.5	607.5
55°	597.6	592.7	574.5	564.6	566.2
57.5°	554.7	549.7	531.6	520.0	520.0
60°	516.7	506.8	485.4	477.1	477.1
62.5°	473.8	462.2	440.8	430.9	432.5
65°	427.6	416.0	392.9	388.0	388.0
67.5°	381.3	371.4	350.0	341.7	333.5
70°	331.8	321.9	305.4	285.6	275.7
72.5°	285.6	274.0	259.2	229.5	219.6
75°	236.1	224.5	208.0	179.9	175.0
77.5°	188.2	178.3	155.2	148.6	151.9
80°	140.3	137.0	120.5	127.1	132.1
82.5°	94.1	92.4	95.8	99.1	99.1
85°	54.5	56.1	62.7	61.1	59.4
87.5°	23.1	28.1	26.4	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)