

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: P238695

Luminaire Tested: **14EN-LD2-28-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238695
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-L940-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2533.6 lumens
Efficiency: N/A
Efficacy: 107.4 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

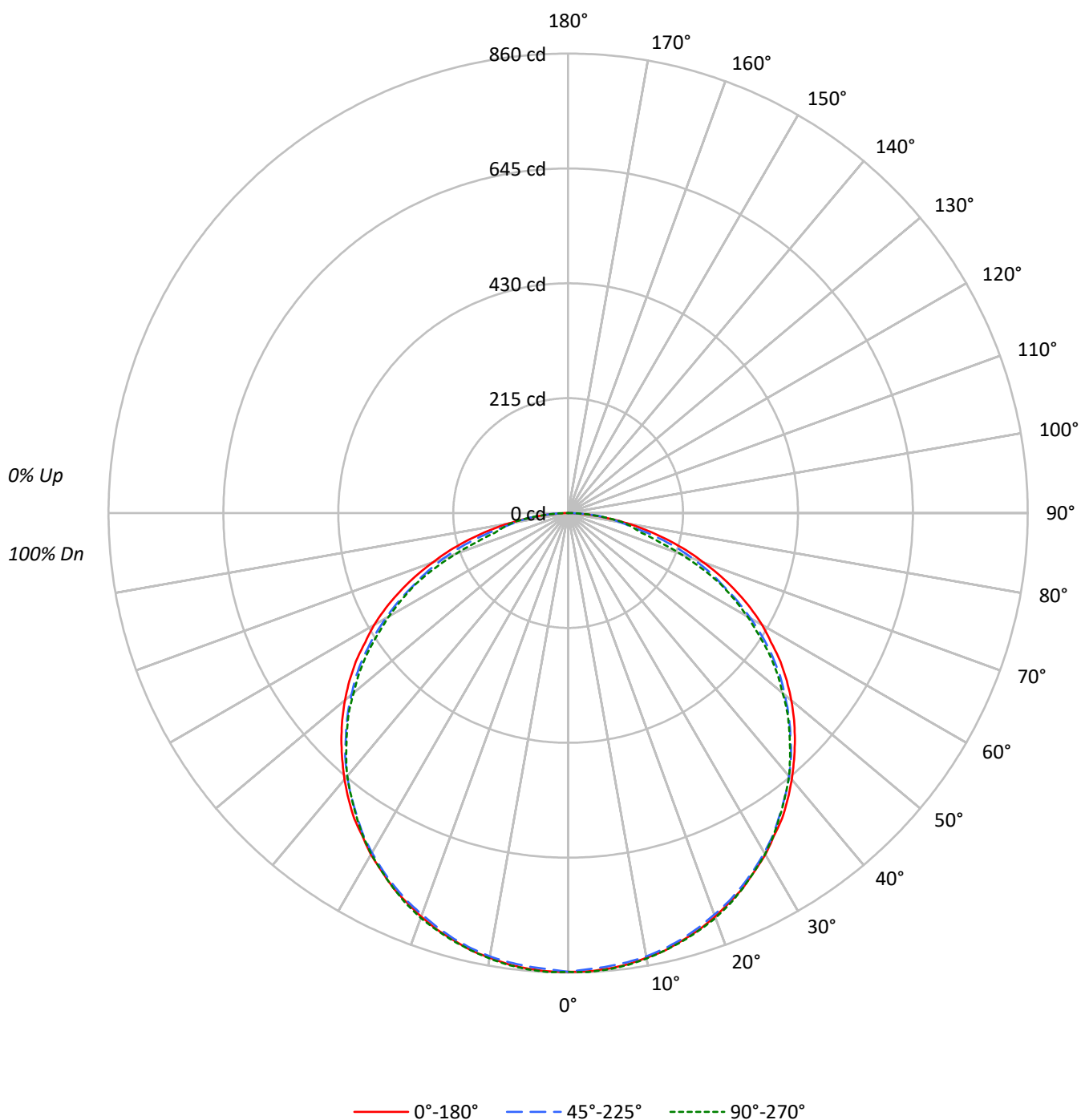
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	69	56	47	40	68	55	46	40		53	46	40			51	45	39			50
7	64	51	42	36	63	50	41	35		48	41	35			47	40	35			45
8	60	46	38	32	58	45	37	32		44	37	31			43	36	31			42
9	56	42	34	28	54	42	34	28		41	33	28			40	33	28			38
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2411	2411	2411
5°	2413	2401	2416
10°	2410	2403	2414
15°	2406	2399	2411
20°	2402	2390	2410
25°	2399	2386	2399
30°	2393	2380	2389
35°	2392	2365	2369
40°	2386	2357	2357
45°	2383	2335	2325
50°	2382	2311	2288
55°	2374	2282	2250
60°	2355	2212	2174
65°	2305	2118	2092
70°	2210	2034	1837
75°	2079	1831	1541
80°	1842	1581	1733
85°	1424	1640	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.2
10°-20°	233.5	9.2
20°-30°	355.9	14.0
30°-40°	433.5	17.1
40°-50°	455.7	18.0
50°-60°	418.3	16.5
60°-70°	321.4	12.7
70°-80°	179.4	7.1
80°-90°	54.5	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°	670.8	26.5
0°-40°	1104.2	43.6
0°-60°	1978.3	78.1
0°-90°	2533.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	856	856	852	856	857	81
15°	828	828	825	828	829	234
25°	774	772	770	773	774	357
35°	698	695	690	691	691	436
45°	600	596	588	585	585	463
55°	485	481	466	458	460	432
65°	347	338	319	315	315	343
75°	192	182	169	146	142	202
85°	44	46	51	50	48	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.6	858.6	858.6	858.6	858.6
2.5°	858.6	858.6	854.6	858.6	860.0
5°	856.0	856.0	851.9	856.0	857.3
7.5°	851.9	851.9	847.9	850.6	853.3
10°	845.2	845.2	842.6	845.2	846.6
12.5°	838.5	837.2	834.5	837.2	838.5
15°	827.8	827.8	825.1	827.8	829.2
17.5°	817.1	815.8	813.1	817.1	818.4
20°	803.7	802.4	799.7	803.7	806.4
22.5°	789.0	787.6	786.3	790.3	791.7
25°	774.2	771.6	770.2	772.9	774.2
27.5°	755.5	754.1	752.8	754.1	755.5
30°	738.1	735.4	734.1	734.1	736.7
32.5°	716.6	715.3	714.0	715.3	715.3
35°	697.9	695.2	689.9	691.2	691.2
37.5°	675.1	671.1	667.1	667.1	667.1
40°	651.0	648.3	643.0	641.6	643.0
42.5°	625.6	622.9	617.5	613.5	614.8
45°	600.1	596.1	588.0	585.4	585.4
47.5°	573.3	569.3	559.9	555.9	557.2
50°	545.2	539.8	529.1	523.8	523.8
52.5°	515.7	510.4	499.6	492.9	492.9
55°	484.9	480.9	466.2	458.1	459.5
57.5°	450.1	446.1	431.3	421.9	421.9
60°	419.3	411.2	393.8	387.1	387.1
62.5°	384.4	375.1	357.7	349.6	351.0
65°	346.9	337.6	318.8	314.8	314.8
67.5°	309.4	301.4	284.0	277.3	270.6
70°	269.2	261.2	247.8	231.7	223.7
72.5°	231.7	222.4	210.3	186.2	178.2
75°	191.6	182.2	168.8	146.0	142.0
77.5°	152.7	144.7	125.9	120.6	123.2
80°	113.9	111.2	97.8	103.1	107.2
82.5°	76.4	75.0	77.7	80.4	80.4
85°	44.2	45.5	50.9	49.6	48.2
87.5°	18.8	22.8	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)