

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: P238752

Luminaire Tested: **14EN-LD2-18-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238752
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-LD2-18-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: 2060.1 lumens
Efficiency: N/A
Efficacy: 128.8 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

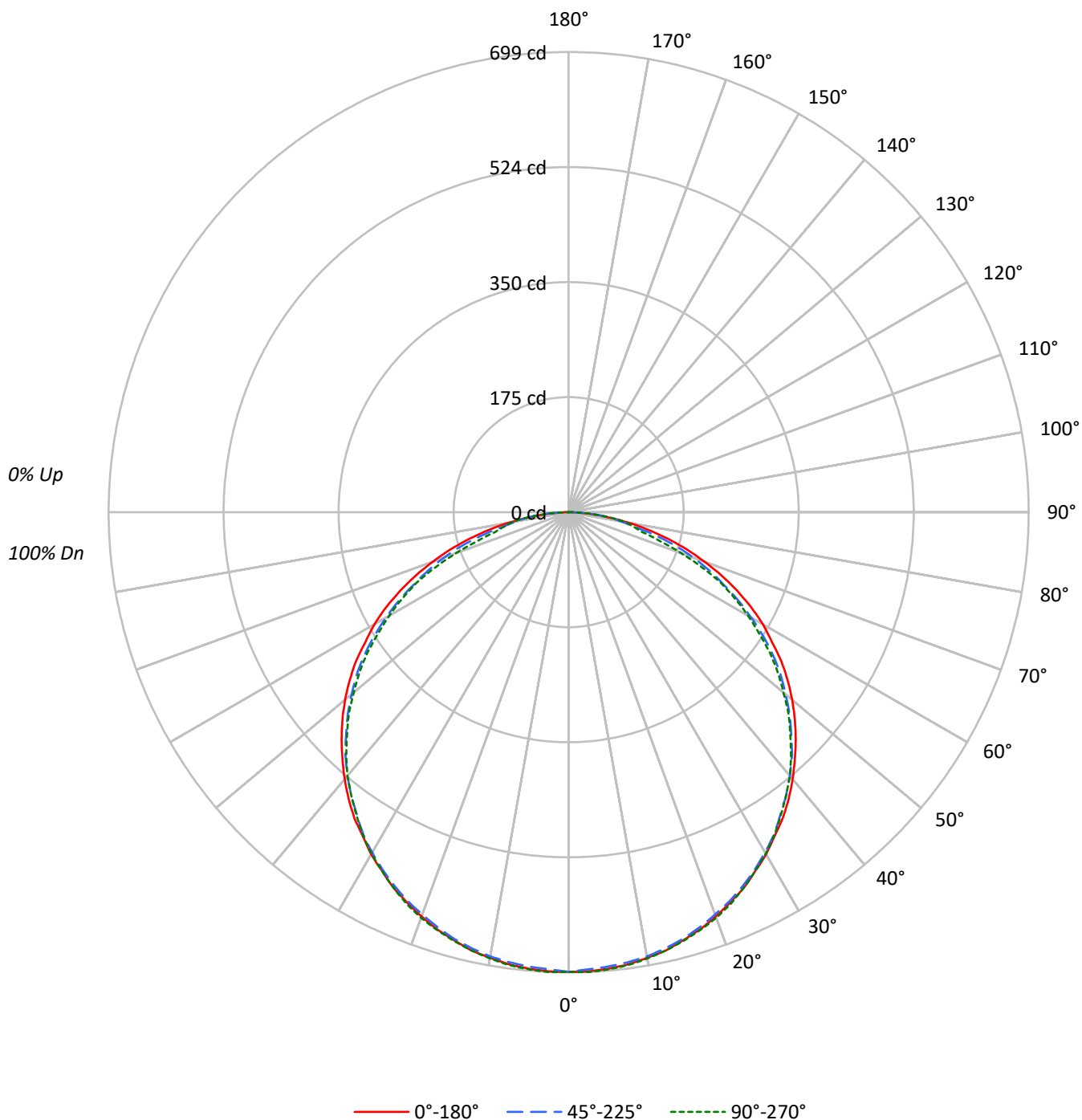
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1961	1961	1961
5°	1962	1953	1965
10°	1960	1953	1963
15°	1957	1951	1960
20°	1953	1943	1959
25°	1951	1940	1951
30°	1946	1935	1943
35°	1945	1923	1926
40°	1941	1916	1916
45°	1938	1899	1890
50°	1937	1879	1861
55°	1930	1856	1829
60°	1914	1798	1768
65°	1874	1722	1701
70°	1797	1654	1493
75°	1690	1489	1253
80°	1497	1286	1408
85°	1157	1334	1263



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	3.2
10°-20°	189.9	9.2
20°-30°	289.4	14.0
30°-40°	352.4	17.1
40°-50°	370.6	18.0
50°-60°	340.2	16.5
60°-70°	261.3	12.7
70°-80°	145.9	7.1
80°-90°	44.3	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°	545.4	26.5
0°-40°	897.9	43.6
0°-60°	1608.6	78.1
0°-90°	2060.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2060.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	696	696	693	696	697	66
15°	673	673	671	673	674	190
25°	630	627	626	628	630	290
35°	568	565	561	562	562	355
45°	488	485	478	476	476	376
55°	394	391	379	372	374	352
65°	282	274	259	256	256	279
75°	156	148	137	119	116	165
85°	36	37	41	40	39	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.2	698.2	698.2	698.2	698.2
2.5°	698.2	698.2	694.9	698.2	699.3
5°	696.0	696.0	692.8	696.0	697.1
7.5°	692.8	692.8	689.5	691.7	693.8
10°	687.3	687.3	685.1	687.3	688.4
12.5°	681.9	680.8	678.6	680.8	681.9
15°	673.1	673.1	671.0	673.1	674.2
17.5°	664.4	663.3	661.2	664.4	665.5
20°	653.5	652.4	650.3	653.5	655.7
22.5°	641.6	640.5	639.4	642.6	643.7
25°	629.6	627.4	626.3	628.5	629.6
27.5°	614.3	613.2	612.1	613.2	614.3
30°	600.2	598.0	596.9	596.9	599.1
32.5°	582.7	581.6	580.6	581.6	581.6
35°	567.5	565.3	561.0	562.0	562.0
37.5°	549.0	545.7	542.4	542.4	542.4
40°	529.4	527.2	522.8	521.7	522.8
42.5°	508.7	506.5	502.1	498.9	500.0
45°	488.0	484.7	478.2	476.0	476.0
47.5°	466.2	462.9	455.3	452.0	453.1
50°	443.3	439.0	430.2	425.9	425.9
52.5°	419.4	415.0	406.3	400.8	400.8
55°	394.3	391.0	379.1	372.5	373.6
57.5°	366.0	362.7	350.7	343.1	343.1
60°	340.9	334.4	320.2	314.8	314.8
62.5°	312.6	305.0	290.8	284.3	285.4
65°	282.1	274.5	259.2	256.0	256.0
67.5°	251.6	245.1	230.9	225.5	220.0
70°	218.9	212.4	201.5	188.4	181.9
72.5°	188.4	180.8	171.0	151.4	144.9
75°	155.8	148.1	137.2	118.7	115.5
77.5°	124.2	117.6	102.4	98.0	100.2
80°	92.6	90.4	79.5	83.9	87.1
82.5°	62.1	61.0	63.2	65.4	65.4
85°	35.9	37.0	41.4	40.3	39.2
87.5°	15.2	18.5	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)