

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: P238987

Luminaire Tested: **24EN-LD2-67-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L940-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6062.7 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

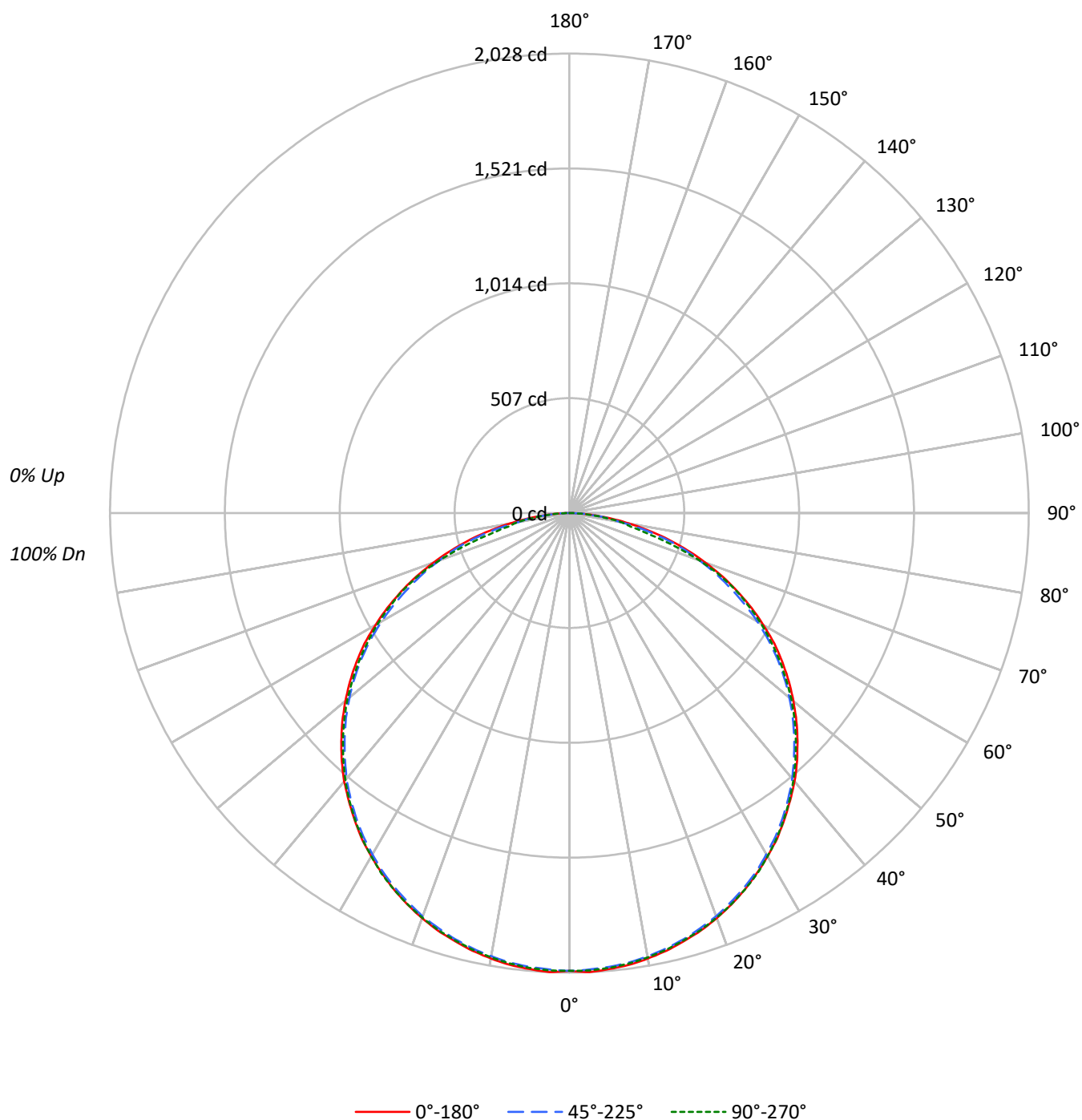
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	67	62			71	66	61			69
4	82	70	61	54	79	68	60	53		66	58	53			63	57	52			61
5	75	62	53	46	73	61	52	46		59	51	45			57	50	45			55
6	69	56	47	40	67	55	46	40		53	45	40			51	44	39			50
7	64	50	42	35	62	50	41	35		48	40	35			47	40	35			45
8	60	46	37	31	58	45	37	31		44	36	31			43	36	31			41
9	56	42	34	28	54	42	34	28		40	33	28			39	33	28			38
10	52	39	31	26	51	38	31	25		37	30	25			36	30	25			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3094	3094	3094
5°	3106	3091	3099
10°	3105	3089	3097
15°	3101	3087	3095
20°	3101	3087	3097
25°	3098	3083	3098
30°	3094	3076	3094
35°	3091	3070	3086
40°	3092	3059	3077
45°	3084	3040	3062
50°	3076	3021	3049
55°	3065	2990	3021
60°	3027	2934	2996
65°	2966	2842	2947
70°	2859	2740	2734
75°	2691	2571	2174
80°	2368	2011	2067
85°	1870	1759	1626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	3.2
10°-20°	550.4	9.1
20°-30°	842.2	13.9
30°-40°	1029.4	17.0
40°-50°	1087.8	17.9
50°-60°	1007.9	16.6
60°-70°	789.6	13.0
70°-80°	446.4	7.4
80°-90°	117.6	1.9
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°	1584.0	26.1
0°-40°	2613.4	43.1
0°-60°	4709.1	77.7
0°-90°	6062.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6062.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	2020	2014	2010	2009	2015	192
15°	1956	1948	1947	1946	1952	553
25°	1833	1825	1824	1824	1833	845
35°	1653	1646	1642	1642	1651	1035
45°	1424	1414	1404	1404	1414	1099
55°	1148	1135	1120	1122	1131	1025
65°	818	803	784	794	813	809
75°	455	442	434	388	367	478
85°	106	100	100	95	92	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2020.4	2020.4	2020.4	2020.4	2020.4
2.5°	2028.0	2019.2	2016.6	2014.1	2020.4
5°	2020.4	2014.1	2010.3	2009.0	2015.4
7.5°	2011.6	2004.0	2001.4	1998.9	2005.2
10°	1996.4	1988.8	1986.2	1985.0	1991.3
12.5°	1978.6	1969.8	1968.5	1967.2	1973.6
15°	1955.8	1948.2	1947.0	1945.7	1952.0
17.5°	1931.8	1924.2	1921.6	1920.4	1929.2
20°	1902.6	1895.0	1893.8	1892.5	1900.1
22.5°	1869.7	1862.1	1859.6	1860.8	1868.4
25°	1833.0	1825.4	1824.1	1824.1	1833.0
27.5°	1792.4	1784.8	1784.8	1784.8	1795.0
30°	1749.4	1743.0	1739.2	1740.5	1749.4
32.5°	1705.0	1694.9	1692.4	1693.6	1702.5
35°	1653.1	1645.5	1641.7	1641.7	1650.6
37.5°	1599.9	1592.3	1587.2	1587.2	1596.1
40°	1546.7	1535.3	1530.2	1527.7	1539.1
42.5°	1487.1	1478.3	1466.9	1466.9	1477.0
45°	1423.8	1413.7	1403.5	1403.5	1413.7
47.5°	1359.2	1349.1	1337.7	1337.7	1347.8
50°	1290.8	1280.7	1268.0	1268.0	1279.4
52.5°	1221.1	1209.7	1195.8	1194.5	1205.9
55°	1147.7	1135.0	1119.8	1122.3	1131.2
57.5°	1072.9	1056.5	1041.3	1041.3	1055.2
60°	988.1	974.1	957.7	960.2	977.9
62.5°	907.0	889.2	872.8	879.1	894.3
65°	818.3	803.1	784.1	794.2	813.2
67.5°	730.9	714.4	699.2	711.9	720.8
70°	638.4	623.2	611.8	611.8	610.6
72.5°	546.0	532.0	529.5	505.4	490.2
75°	454.8	442.1	434.5	387.6	367.4
77.5°	359.8	356.0	331.9	282.5	276.1
80°	268.5	271.1	228.0	229.3	234.3
82.5°	184.9	181.1	171.0	163.4	160.9
85°	106.4	100.1	100.1	95.0	92.5
87.5°	35.5	39.3	39.3	39.3	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)