

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: P232276

Luminaire Tested: **22RDIA-20-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-16-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RDIA-20-UNV-L830-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

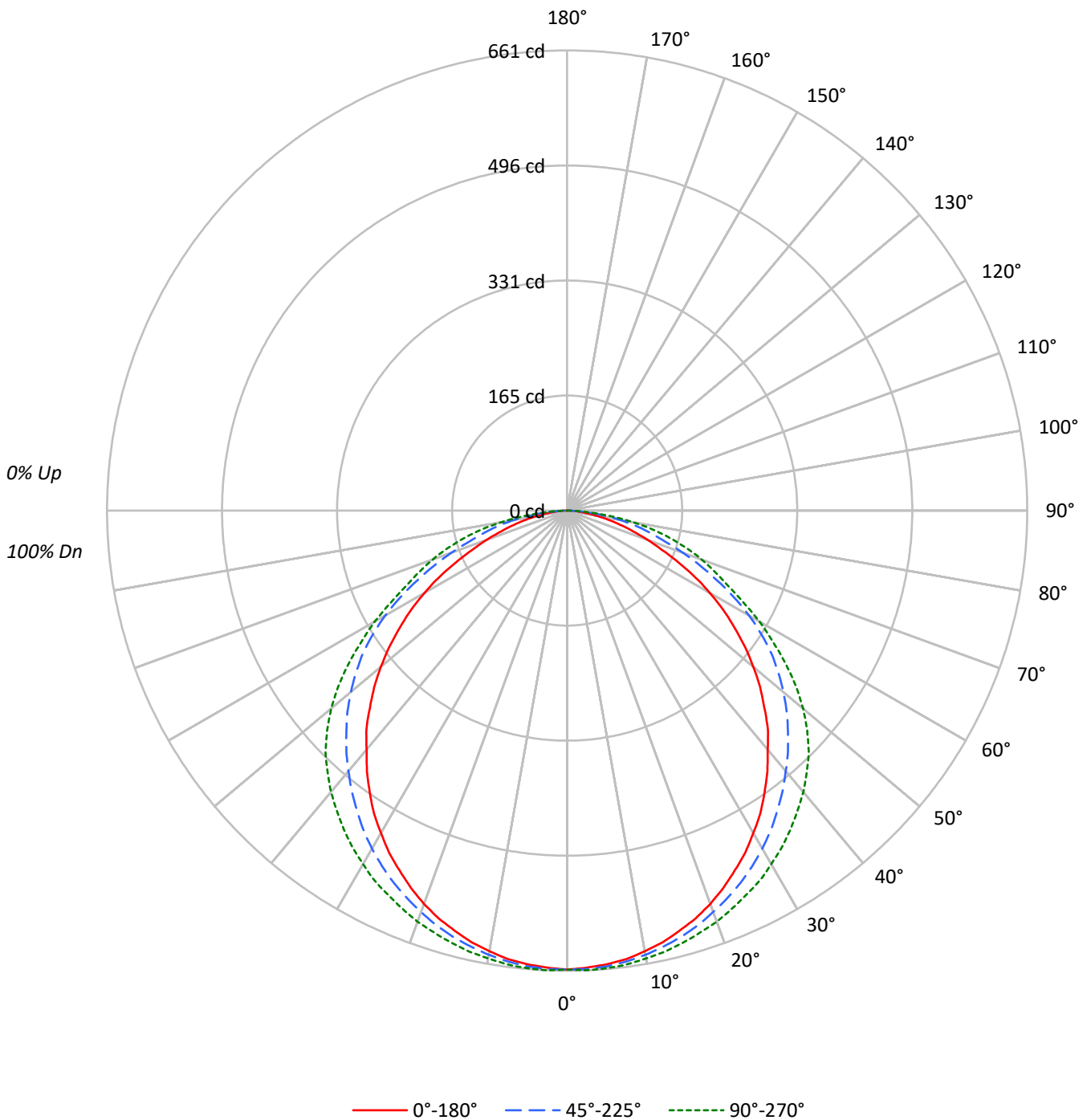
Lumens per Lamp: N/A
Luminaire Lumens: 1887.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.9
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	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	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	29	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°	2129	2129	2129
5°	2121	2130	2139
10°	2107	2125	2142
15°	2088	2119	2149
20°	2066	2109	2159
25°	2032	2101	2170
30°	1994	2091	2187
35°	1949	2075	2204
40°	1889	2060	2224
45°	1830	2048	2242
50°	1755	2038	2222
55°	1652	2018	2157
60°	1529	1950	2062
65°	1352	1819	1947
70°	1162	1671	1942
75°	988	1542	1916
80°	798	1428	1774
85°	600	1115	1360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.3
10°-20°	178.9	9.5
20°-30°	271.9	14.4
30°-40°	329.6	17.5
40°-50°	344.8	18.3
50°-60°	310.5	16.5
60°-70°	227.0	12.0
70°-80°	128.2	6.8
80°-90°	33.5	1.8
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°	513.3	27.2
0°-40°	842.8	44.7
0°-60°	1498.2	79.4
0°-90°	1887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	654	655	657	659	660	62
15°	625	628	634	640	643	176
25°	570	576	590	604	609	263
35°	494	504	526	550	559	309
45°	401	417	448	479	491	309
55°	294	317	358	378	383	263
65°	177	208	238	252	255	176
75°	79	99	124	146	154	85
85°	16	22	30	34	37	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	659.4	659.4	659.4	659.4	659.4
2.5°	657.1	657.5	659.0	660.9	660.9
5°	654.2	655.2	657.1	659.0	659.9
7.5°	649.9	650.9	653.2	656.6	657.5
10°	642.7	644.7	648.0	651.8	653.2
12.5°	635.1	637.0	641.3	646.6	648.9
15°	624.6	627.5	633.7	640.4	642.7
17.5°	614.1	616.5	624.6	632.7	635.6
20°	601.2	604.1	613.6	624.1	628.4
22.5°	586.4	591.2	602.2	614.6	618.9
25°	570.2	576.4	589.8	604.1	608.9
27.5°	554.0	559.7	575.9	592.2	599.3
30°	534.9	542.5	560.7	579.3	586.4
32.5°	516.3	524.4	544.4	565.0	573.6
35°	494.3	503.9	526.3	549.7	559.2
37.5°	472.4	482.9	508.2	533.5	543.5
40°	448.1	460.9	488.6	516.8	527.7
42.5°	427.1	438.5	469.5	499.1	509.6
45°	400.8	416.6	448.5	478.6	491.0
47.5°	376.0	391.8	428.0	457.6	467.6
50°	349.3	367.9	405.6	434.7	442.3
52.5°	322.1	344.0	382.2	408.5	414.2
55°	293.5	317.3	358.4	378.4	383.2
57.5°	266.3	291.5	330.7	347.4	350.2
60°	236.7	264.4	302.0	314.9	319.2
62.5°	207.6	236.7	270.6	282.0	284.9
65°	177.0	208.5	238.1	252.4	254.8
67.5°	147.4	179.9	207.1	220.9	229.5
70°	123.1	152.7	177.0	196.1	205.7
72.5°	99.3	125.5	146.5	171.3	180.4
75°	79.2	98.8	123.6	145.5	153.6
77.5°	60.6	74.4	100.7	118.8	126.0
80°	42.9	53.9	76.8	91.1	95.4
82.5°	27.2	36.3	52.5	63.0	65.8
85°	16.2	21.5	30.1	34.4	36.7
87.5°	8.6	8.1	9.5	10.0	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)