

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: P232267

Luminaire Tested: **22RDI-20-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-10-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RDI-20-UNV-L850-CD1-U  
Description: METALUX 2X2 OVATION LED TROFFER  
STANDARD VERISON  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2107.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

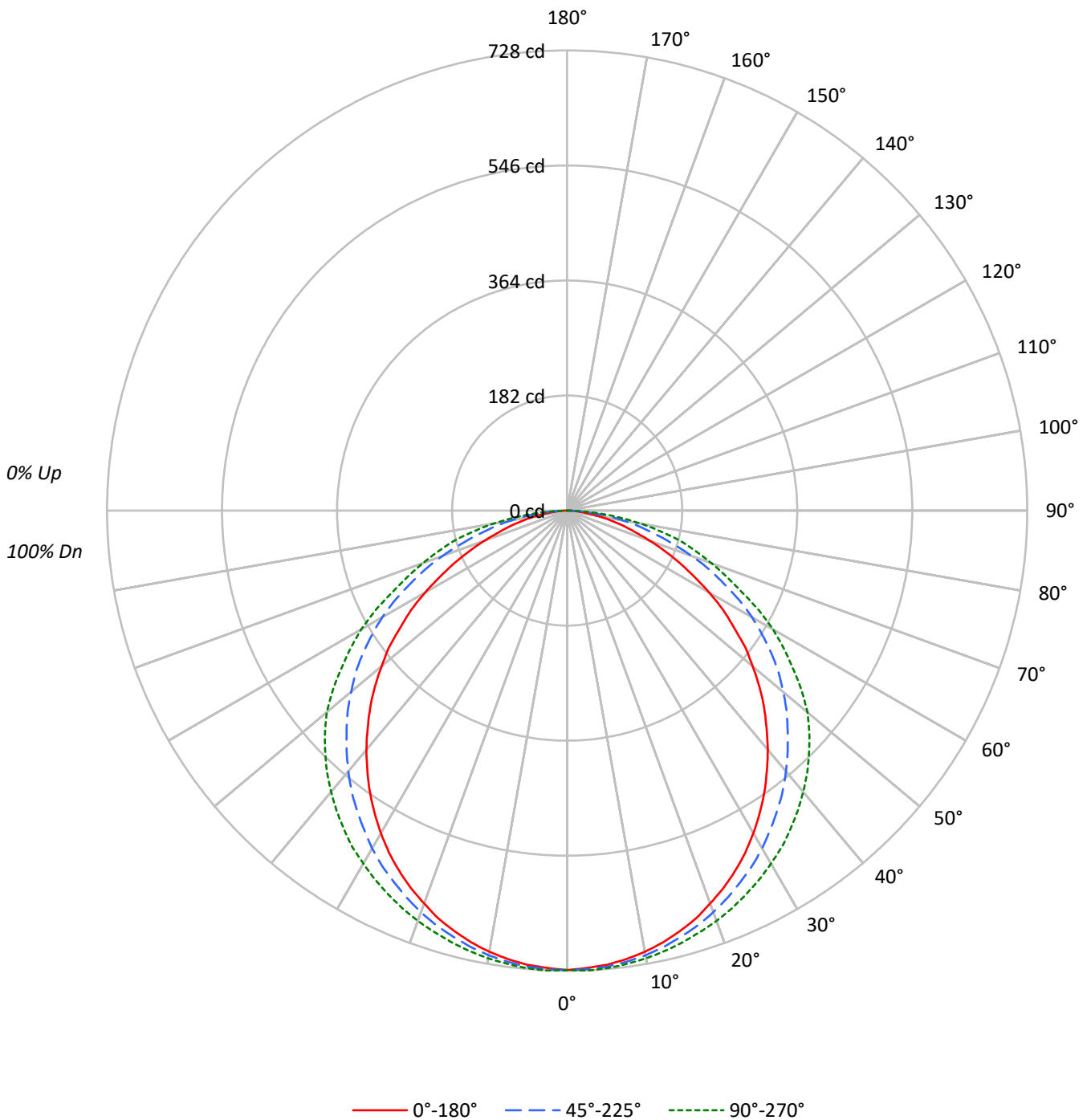
Input Watts (W): 19.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P232267

CATALOG NUMBER: 22RDI-20-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P232267

CATALOG NUMBER: 22RDI-20-UNV-L850-CD1-U

**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	99	96	106	101	98	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1956	1956	1956
5°	1948	1956	1964
10°	1937	1952	1965
15°	1919	1944	1969
20°	1895	1936	1978
25°	1867	1925	1989
30°	1831	1917	2004
35°	1787	1904	2023
40°	1736	1892	2041
45°	1677	1878	2060
50°	1603	1868	2077
55°	1510	1852	2047
60°	1399	1817	2024
65°	1252	1743	1938
70°	1088	1651	1908
75°	939	1502	1929
80°	764	1399	1810
85°	559	1115	1501



TEST NUMBER: P232267

CATALOG NUMBER: 22RDI-20-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.8	3.3
10°-20°	197.0	9.4
20°-30°	299.3	14.2
30°-40°	362.8	17.2
40°-50°	380.0	18.0
50°-60°	346.1	16.4
60°-70°	261.1	12.4
70°-80°	150.8	7.2
80°-90°	41.0	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°	565.1	26.8
0°-40°	927.9	44.0
0°-60°	1654.1	78.5
0°-90°	2107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2107.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	721	722	724	726	727	68
15°	689	692	698	704	707	194
25°	629	635	648	664	670	290
35°	544	555	580	605	616	340
45°	441	457	493	529	541	339
55°	322	348	395	428	436	288
65°	197	229	274	298	304	195
75°	90	113	144	173	186	96
85°	18	24	36	44	49	22
90°	0	0	0	0	0	



TEST NUMBER: P232267

CATALOG NUMBER: 22RDI-20-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	726.9	726.9	726.9	726.9	726.9
2.5°	724.1	724.8	726.2	727.6	728.3
5°	721.3	722.0	724.1	726.2	726.9
7.5°	715.8	717.2	720.0	722.7	723.4
10°	708.8	710.2	714.4	717.9	719.3
12.5°	699.8	701.9	706.8	711.6	713.7
15°	688.7	691.5	697.7	704.0	706.8
17.5°	676.9	679.7	688.0	696.3	699.1
20°	661.6	665.8	676.2	686.6	690.8
22.5°	646.3	650.5	663.0	676.2	681.0
25°	628.9	635.2	648.4	664.4	669.9
27.5°	610.2	617.1	633.8	651.2	658.1
30°	589.3	597.6	617.1	637.3	644.9
32.5°	567.1	576.8	598.3	622.0	631.7
35°	544.1	555.3	579.6	604.6	615.7
37.5°	519.1	531.6	560.1	587.2	599.0
40°	494.1	507.3	538.6	569.2	581.0
42.5°	467.0	483.0	516.3	549.7	562.2
45°	440.6	457.3	493.4	528.8	541.4
47.5°	412.8	430.9	471.2	506.6	519.8
50°	382.9	404.5	446.2	483.0	496.2
52.5°	355.1	377.4	421.8	456.6	467.7
55°	321.8	348.2	394.7	428.1	436.4
57.5°	292.6	319.0	366.2	396.1	406.5
60°	259.9	290.5	337.7	365.5	376.0
62.5°	226.6	259.9	307.2	332.9	341.9
65°	196.7	229.3	273.8	298.1	304.4
67.5°	167.5	200.8	243.2	265.5	272.4
70°	138.3	170.3	209.9	231.4	242.5
72.5°	111.9	142.5	175.8	202.2	212.7
75°	90.3	113.3	144.5	173.0	185.5
77.5°	69.5	87.6	117.4	144.5	151.5
80°	49.3	63.9	90.3	111.9	116.8
82.5°	31.3	43.8	63.2	77.1	83.4
85°	18.1	24.3	36.1	44.5	48.6
87.5°	7.6	10.4	12.5	14.6	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)