

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: P232279

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232279
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-L850-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

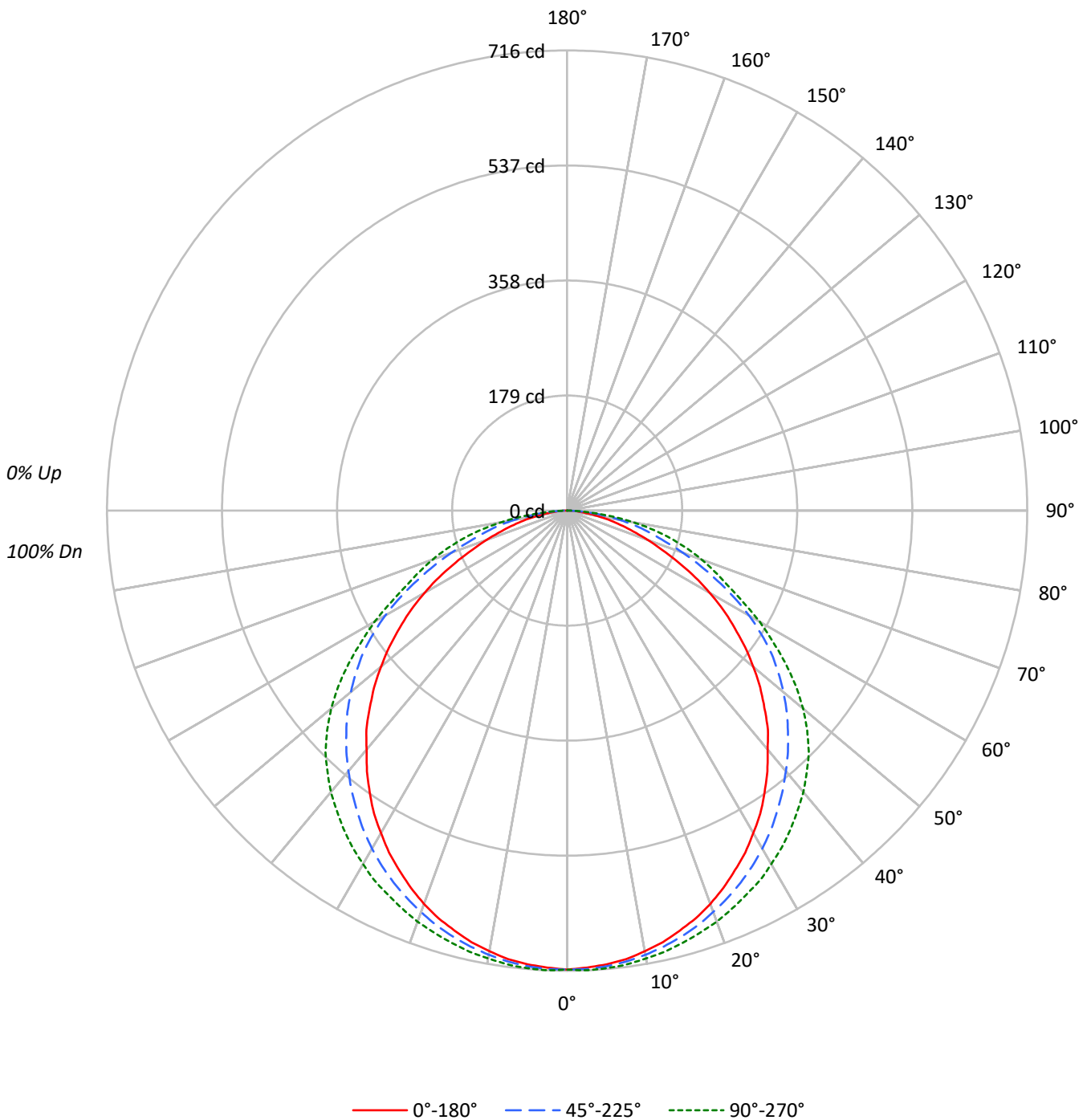
Lumens per Lamp: N/A
Luminaire Lumens: 2044.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 2' x H: 0')
CIE Type: Direct

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°	2307	2307	2307
5°	2297	2307	2317
10°	2283	2302	2320
15°	2262	2295	2327
20°	2238	2284	2339
25°	2201	2276	2350
30°	2160	2264	2368
35°	2111	2247	2388
40°	2046	2231	2410
45°	1983	2219	2429
50°	1900	2207	2407
55°	1790	2186	2336
60°	1656	2113	2233
65°	1466	1971	2109
70°	1259	1811	2104
75°	1070	1671	2076
80°	865	1547	1923
85°	652	1208	1475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.3
10°-20°	193.8	9.5
20°-30°	294.6	14.4
30°-40°	357.0	17.5
40°-50°	373.5	18.3
50°-60°	336.3	16.5
60°-70°	245.9	12.0
70°-80°	138.9	6.8
80°-90°	36.3	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°	556.0	27.2
0°-40°	913.0	44.7
0°-60°	1622.8	79.4
0°-90°	2044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	709	710	712	714	715	67
15°	677	680	686	694	696	191
25°	618	624	639	654	660	285
35°	536	546	570	595	606	335
45°	434	451	486	518	532	335
55°	318	344	388	410	415	284
65°	192	226	258	273	276	191
75°	86	107	134	158	166	92
85°	18	23	33	37	40	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.3	714.3	714.3	714.3	714.3
2.5°	711.7	712.2	713.8	715.9	715.9
5°	708.6	709.7	711.7	713.8	714.8
7.5°	704.0	705.0	707.6	711.2	712.2
10°	696.2	698.3	701.9	706.0	707.6
12.5°	688.0	690.0	694.7	700.4	702.9
15°	676.6	679.7	686.4	693.6	696.2
17.5°	665.2	667.8	676.6	685.4	688.5
20°	651.3	654.4	664.7	676.1	680.7
22.5°	635.2	640.4	652.3	665.7	670.4
25°	617.7	624.4	638.8	654.4	659.5
27.5°	600.1	606.3	623.9	641.4	649.2
30°	579.4	587.7	607.3	627.5	635.2
32.5°	559.3	568.0	589.7	612.0	621.3
35°	535.5	545.8	570.1	595.4	605.8
37.5°	511.7	523.1	550.5	577.9	588.7
40°	485.3	499.3	529.3	559.8	571.7
42.5°	462.6	475.0	508.6	540.6	552.0
45°	434.2	451.2	485.9	518.4	531.9
47.5°	407.3	424.3	463.6	495.7	506.5
50°	378.3	398.5	439.3	470.9	479.1
52.5°	348.9	372.7	414.0	442.4	448.6
55°	317.9	343.7	388.2	409.9	415.0
57.5°	288.4	315.8	358.2	376.3	379.4
60°	256.4	286.3	327.2	341.1	345.8
62.5°	224.8	256.4	293.1	305.5	308.6
65°	191.8	225.9	257.9	273.4	276.0
67.5°	159.7	194.9	224.3	239.3	248.6
70°	133.4	165.4	191.8	212.4	222.8
72.5°	107.5	135.9	158.7	185.6	195.4
75°	85.8	107.0	133.9	157.6	166.4
77.5°	65.6	80.6	109.1	128.7	136.5
80°	46.5	58.4	83.2	98.7	103.4
82.5°	29.5	39.3	56.9	68.2	71.3
85°	17.6	23.3	32.6	37.2	39.8
87.5°	9.3	8.8	10.3	10.9	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)