

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: P232282

Luminaire Tested: **22RDIA-30-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232282
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-30-UNV-L840-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

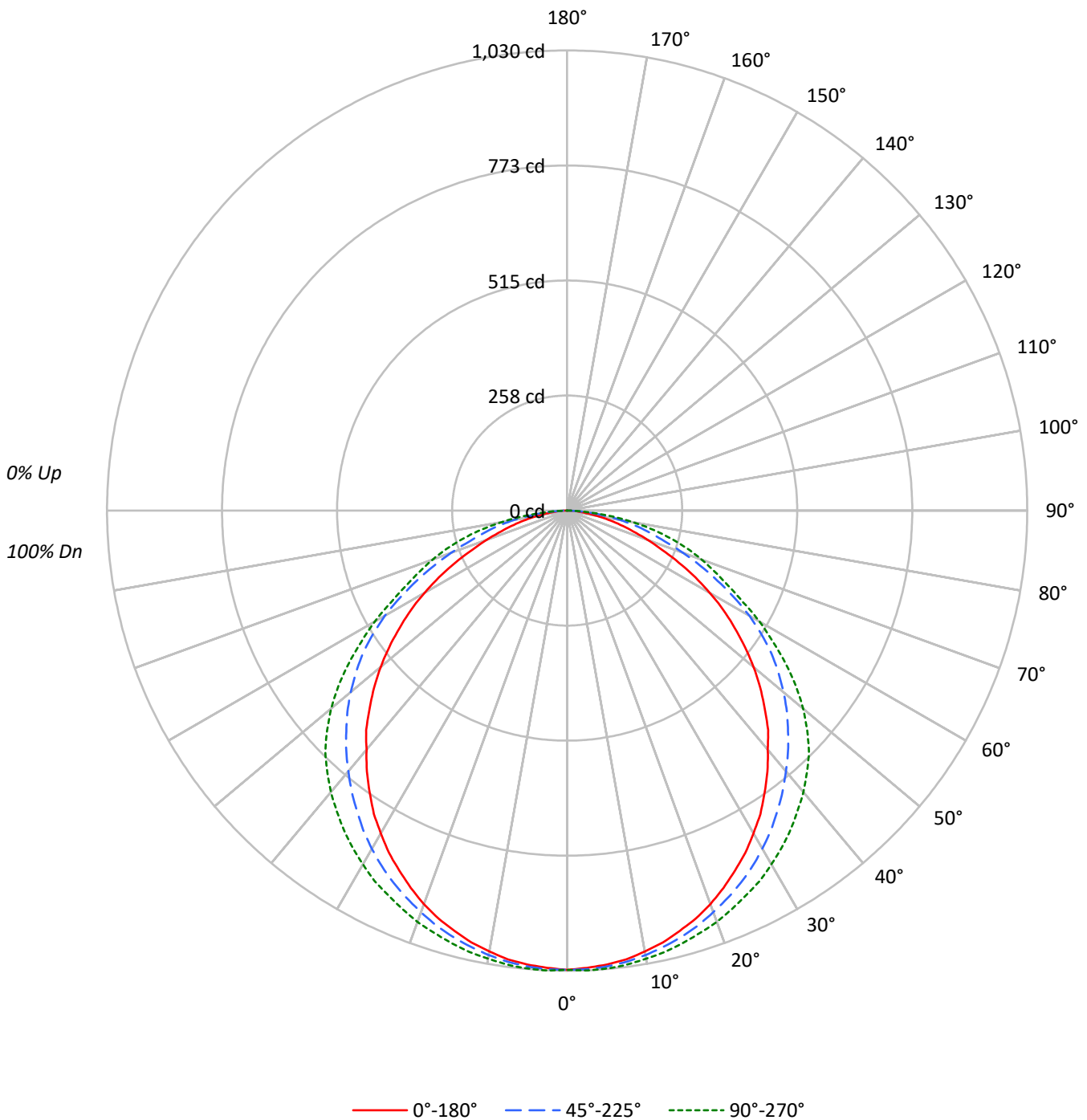
Lumens per Lamp: N/A
Luminaire Lumens: 2942.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.1
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	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°	3320	3320	3320
5°	3306	3321	3335
10°	3286	3313	3340
15°	3255	3303	3350
20°	3221	3288	3367
25°	3168	3276	3382
30°	3110	3259	3409
35°	3038	3235	3437
40°	2945	3211	3468
45°	2854	3194	3496
50°	2736	3177	3464
55°	2576	3145	3363
60°	2383	3041	3214
65°	2109	2836	3036
70°	1812	2606	3027
75°	1541	2404	2989
80°	1246	2228	2767
85°	937	1738	2123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	3.3
10°-20°	278.9	9.5
20°-30°	424.0	14.4
30°-40°	513.8	17.5
40°-50°	537.6	18.3
50°-60°	484.1	16.5
60°-70°	354.0	12.0
70°-80°	199.9	6.8
80°-90°	52.3	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°	800.2	27.2
0°-40°	1314.1	44.7
0°-60°	2335.8	79.4
0°-90°	2942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1020	1021	1024	1027	1029	97
15°	974	978	988	998	1002	275
25°	889	899	920	942	949	410
35°	771	786	821	857	872	482
45°	625	650	699	746	766	482
55°	458	495	559	590	597	409
65°	276	325	371	394	397	274
75°	124	154	193	227	240	132
85°	25	34	47	54	57	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.1	1028.1	1028.1	1028.1	1028.1
2.5°	1024.4	1025.2	1027.4	1030.4	1030.4
5°	1020.0	1021.4	1024.4	1027.4	1028.9
7.5°	1013.3	1014.7	1018.5	1023.7	1025.2
10°	1002.1	1005.1	1010.3	1016.2	1018.5
12.5°	990.2	993.2	999.9	1008.0	1011.8
15°	973.8	978.3	988.0	998.4	1002.1
17.5°	957.5	961.2	973.8	986.5	990.9
20°	937.4	941.8	956.7	973.1	979.8
22.5°	914.3	921.7	938.9	958.2	964.9
25°	889.0	898.7	919.5	941.8	949.3
27.5°	863.7	872.6	897.9	923.2	934.4
30°	834.0	845.9	874.1	903.2	914.3
32.5°	805.0	817.6	848.8	880.8	894.2
35°	770.7	785.6	820.6	857.0	871.9
37.5°	736.5	752.9	792.3	831.7	847.4
40°	698.6	718.7	761.8	805.7	822.8
42.5°	665.8	683.7	732.0	778.2	794.5
45°	624.9	649.5	699.3	746.2	765.5
47.5°	586.2	610.8	667.3	713.4	729.1
50°	544.6	573.6	632.4	677.7	689.6
52.5°	502.2	536.4	595.9	636.8	645.7
55°	457.5	494.7	558.7	589.9	597.4
57.5°	415.1	454.6	515.6	541.6	546.1
60°	369.0	412.1	470.9	491.0	497.7
62.5°	323.6	369.0	421.8	439.7	444.1
65°	276.0	325.1	371.2	393.5	397.3
67.5°	229.9	280.5	322.9	344.4	357.8
70°	191.9	238.1	276.0	305.8	320.6
72.5°	154.7	195.7	228.4	267.1	281.2
75°	123.5	154.0	192.7	226.9	239.6
77.5°	94.5	116.1	157.0	185.2	196.4
80°	67.0	84.1	119.8	142.1	148.8
82.5°	42.4	56.5	81.8	98.2	102.7
85°	25.3	33.5	46.9	53.6	57.3
87.5°	13.4	12.6	14.9	15.6	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)