

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: P474997

Luminaire Tested: **22CZ2-44-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474997
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44-RDP-UNV-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

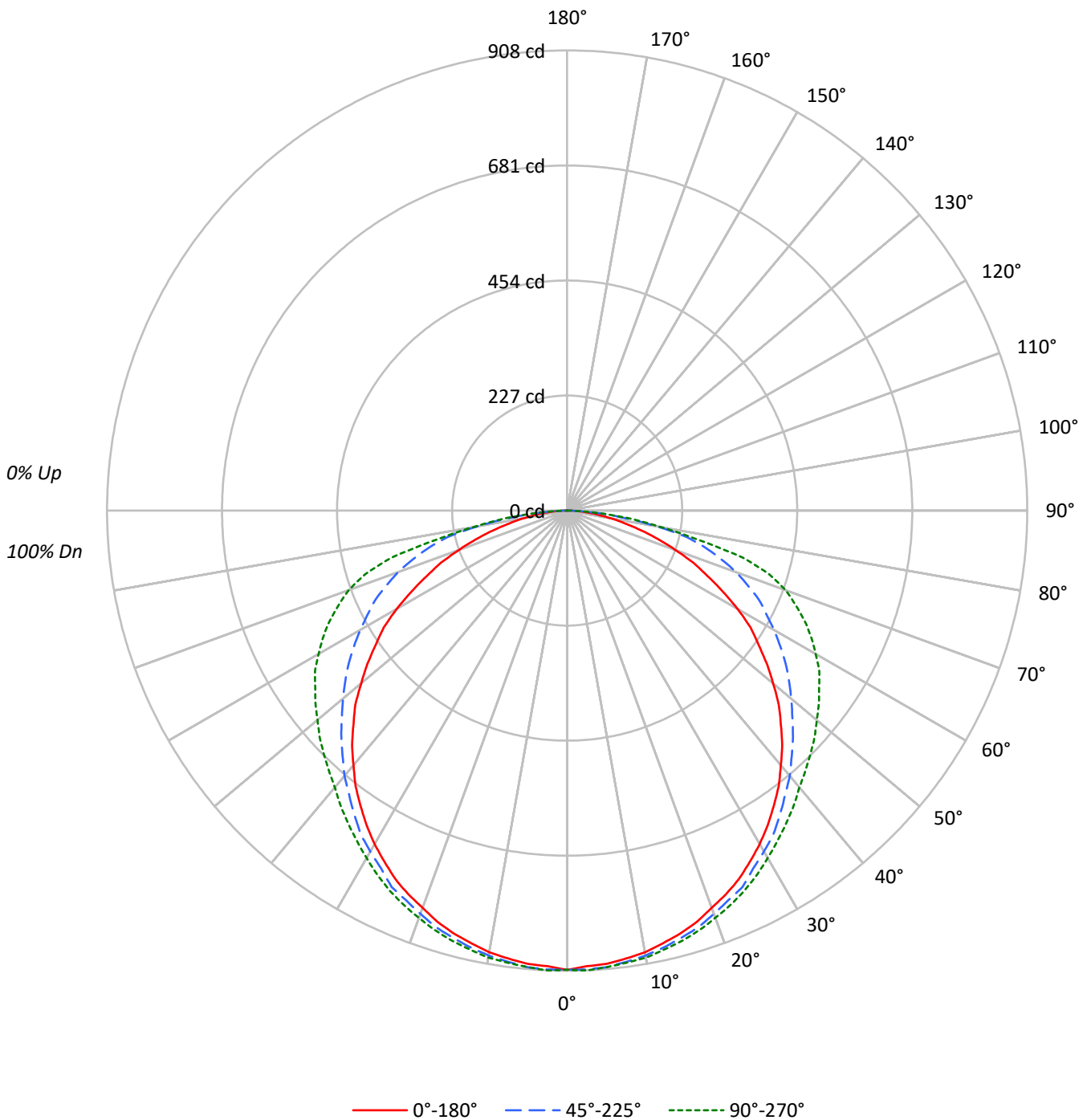
Lumens per Lamp: N/A
Luminaire Lumens: 2885.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.2
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	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2439	2439	2439
5°	2425	2442	2442
10°	2418	2436	2447
15°	2406	2430	2447
20°	2388	2425	2449
25°	2382	2433	2458
30°	2361	2413	2460
35°	2335	2405	2475
40°	2304	2400	2505
45°	2270	2399	2584
50°	2221	2416	2692
55°	2161	2470	2847
60°	2091	2535	3049
65°	1946	2663	3298
70°	1787	2789	3607
75°	1568	2934	3729
80°	1350	2794	2929
85°	1179	2032	2226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	3.0
10°-20°	246.1	8.5
20°-30°	375.5	13.0
30°-40°	458.5	15.9
40°-50°	490.2	17.0
50°-60°	473.2	16.4
60°-70°	407.3	14.1
70°-80°	275.6	9.6
80°-90°	72.7	2.5
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°	707.4	24.5
0°-40°	1165.8	40.4
0°-60°	2129.3	73.8
0°-90°	2885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	898	900	904	904	904	85
15°	864	866	872	876	878	244
25°	802	806	819	824	828	369
35°	711	717	732	747	754	445
45°	596	607	630	662	679	460
55°	461	475	526	579	607	413
65°	306	335	418	484	518	304
75°	151	200	282	340	359	162
85°	38	53	66	68	72	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.2	906.2	906.2	906.2	906.2
2.5°	899.8	902.0	906.2	906.2	908.3
5°	897.7	899.8	904.1	904.1	904.1
7.5°	891.4	893.5	897.7	899.8	899.8
10°	884.9	887.2	891.4	893.5	895.6
12.5°	874.3	876.4	882.8	887.2	887.2
15°	863.8	865.9	872.2	876.4	878.5
17.5°	850.9	855.3	861.7	865.9	868.0
20°	834.0	838.3	846.7	853.2	855.3
22.5°	819.3	823.5	831.9	838.3	842.5
25°	802.2	806.4	819.3	823.5	827.7
27.5°	780.9	785.3	795.9	804.3	810.6
30°	759.8	764.0	776.7	787.4	791.7
32.5°	736.4	742.7	757.7	766.1	772.5
35°	710.9	717.2	732.2	747.0	753.5
37.5°	685.6	691.9	706.7	725.9	734.3
40°	655.9	664.3	683.3	708.8	713.0
42.5°	628.2	638.8	655.9	685.6	696.1
45°	596.4	606.9	630.3	662.2	679.0
47.5°	566.6	577.2	602.7	640.9	662.2
50°	530.6	545.3	577.2	621.9	643.0
52.5°	496.6	509.3	551.9	600.6	626.1
55°	460.6	475.3	526.4	579.3	606.9
57.5°	428.7	441.4	498.7	558.2	590.1
60°	388.5	405.3	471.1	534.8	566.6
62.5°	345.9	371.4	443.5	509.3	543.2
65°	305.6	335.3	418.2	483.8	517.9
67.5°	269.5	301.4	386.3	456.4	488.2
70°	227.1	267.4	354.5	422.4	458.5
72.5°	189.0	233.4	318.4	386.3	418.2
75°	150.8	199.5	282.2	339.5	358.7
77.5°	116.6	163.4	241.9	259.0	261.1
80°	87.1	129.5	180.3	182.4	189.0
82.5°	59.5	91.3	116.6	127.4	129.5
85°	38.2	53.1	65.8	67.9	72.1
87.5°	17.1	19.2	23.4	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)