

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: P474219

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L835-CD1-U**

Issue Date: 01/28/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P474219  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/28/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30HE-RDP-UNV-L835-CD1-U  
Description: 2'X4' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2077.0 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

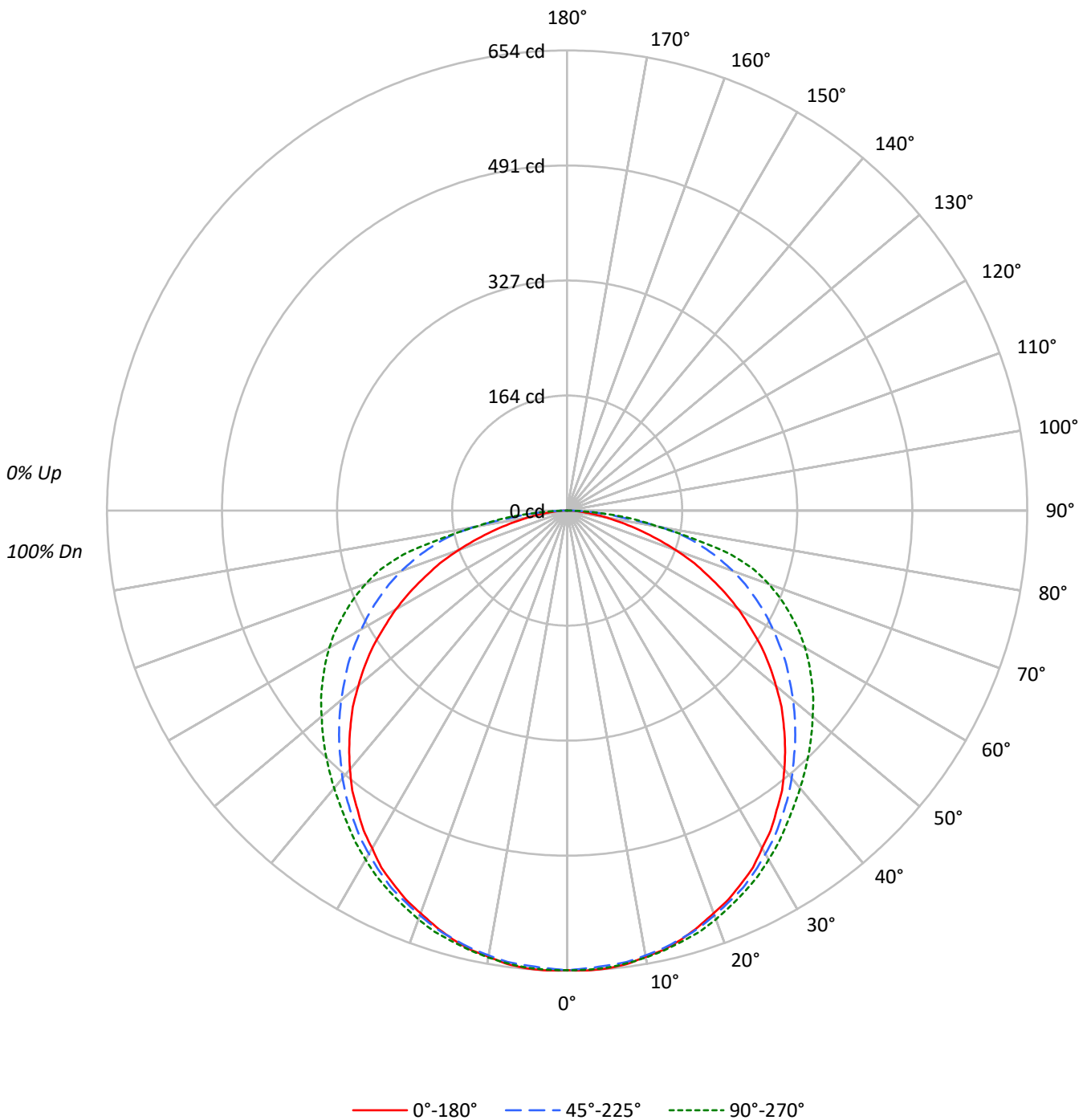
Input Watts (W): 22.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	89		92	89	87		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		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°	879	879	879
5°	882	877	881
10°	880	877	881
15°	878	877	883
20°	872	876	885
25°	869	878	887
30°	861	875	890
35°	853	873	893
40°	843	872	905
45°	829	872	925
50°	811	878	953
55°	790	892	996
60°	757	909	1051
65°	708	941	1115
70°	644	985	1199
75°	546	1039	1253
80°	432	1045	1013
85°	318	795	891



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	3.0
10°-20°	178.3	8.6
20°-30°	272.7	13.1
30°-40°	333.3	16.0
40°-50°	355.3	17.1
50°-60°	339.7	16.4
60°-70°	287.8	13.9
70°-80°	193.4	9.3
80°-90°	54.6	2.6
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°	513.0	24.7
0°-40°	846.3	40.7
0°-60°	1541.3	74.2
0°-90°	2077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	653	652	649	652	652	62
15°	630	630	630	635	634	178
25°	585	587	591	596	598	270
35°	519	523	532	542	544	325
45°	436	443	458	478	486	336
55°	337	349	380	410	424	300
65°	222	245	296	335	350	221
75°	105	143	200	234	241	112
85°	21	42	52	56	58	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	653.2	653.2	653.2	653.2	653.2
2.5°	654.2	654.2	651.1	653.2	653.2
5°	653.2	652.2	649.1	652.2	652.2
7.5°	650.1	649.1	647.0	650.1	649.1
10°	643.9	643.9	641.9	645.0	645.0
12.5°	638.8	637.7	636.7	640.8	639.8
15°	630.5	630.5	629.5	634.6	633.6
17.5°	620.2	621.2	622.3	626.4	627.4
20°	608.9	610.9	612.0	618.2	618.2
22.5°	598.6	599.6	601.7	607.8	607.8
25°	585.2	587.2	591.4	596.5	597.5
27.5°	571.8	572.8	578.0	585.2	586.2
30°	554.2	557.3	563.5	571.8	572.8
32.5°	538.8	541.9	549.1	557.3	559.4
35°	519.2	523.3	531.6	541.9	543.9
37.5°	501.7	504.8	515.1	526.4	529.5
40°	480.1	486.2	496.5	509.9	515.1
42.5°	458.5	464.7	477.0	494.5	500.6
45°	435.8	443.0	458.5	478.1	486.2
47.5°	413.1	421.4	438.9	461.6	470.9
50°	387.4	397.7	419.3	445.1	455.4
52.5°	362.6	375.0	398.7	427.6	441.0
55°	336.9	349.2	380.1	410.0	424.5
57.5°	308.0	324.5	358.5	392.5	408.0
60°	281.3	296.7	337.9	375.0	390.5
62.5°	252.4	273.1	317.3	356.4	371.9
65°	222.5	245.2	295.6	334.8	350.3
67.5°	195.7	220.5	274.1	313.1	328.6
70°	163.8	194.7	250.4	289.4	304.9
72.5°	133.9	167.9	225.6	263.8	278.2
75°	105.0	143.2	199.9	233.9	241.1
77.5°	78.3	118.4	173.1	187.5	182.3
80°	55.7	94.8	134.9	127.7	130.8
82.5°	36.1	72.2	83.5	94.8	97.8
85°	20.6	42.3	51.5	55.7	57.7
87.5°	9.3	15.5	20.6	20.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)