

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: P475002

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475002
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-RDP-UNV-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2584.3 lumens
Efficiency: N/A
Efficacy: 90.7 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

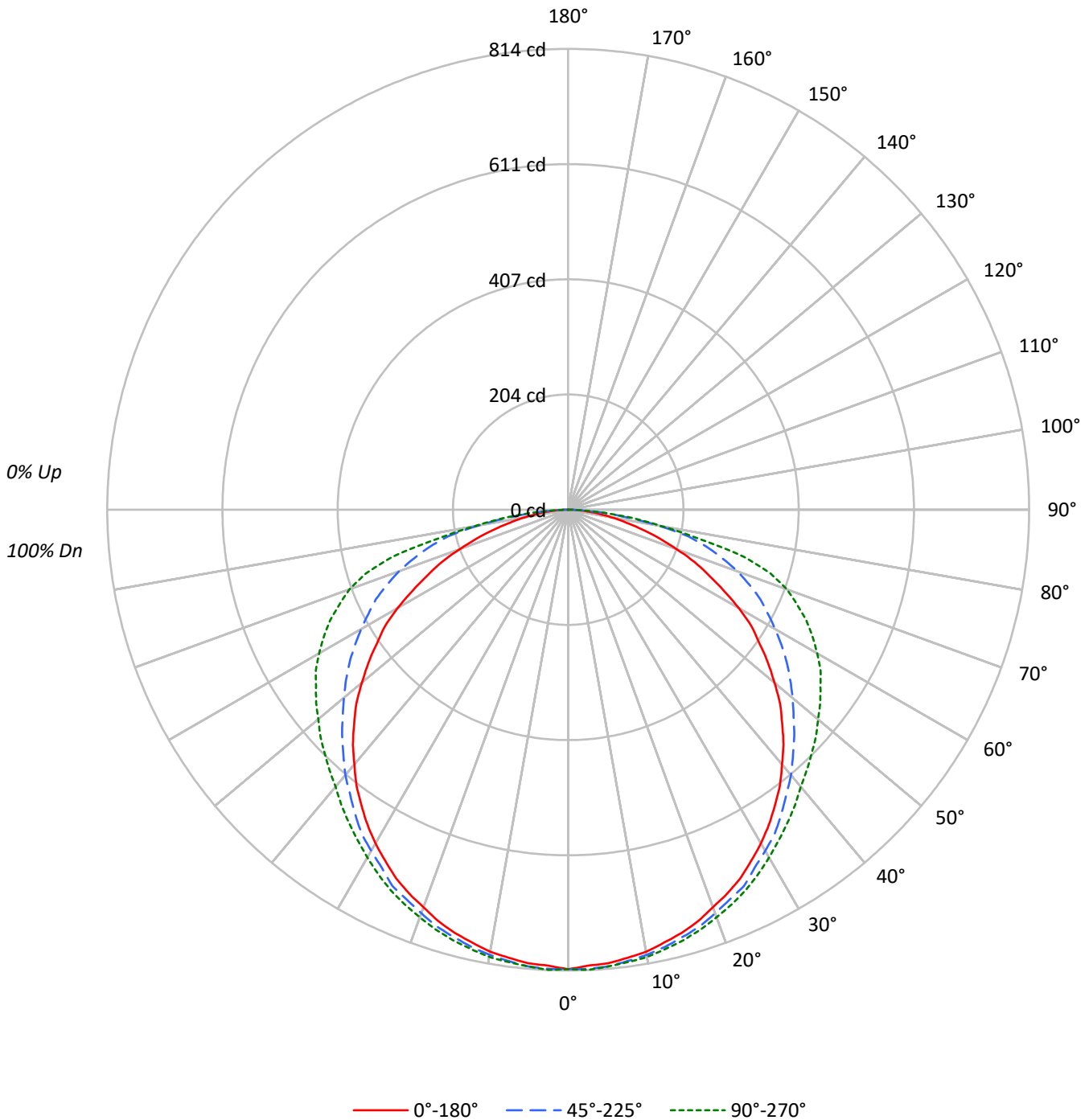
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2184	2184	2184
5°	2172	2187	2187
10°	2166	2182	2192
15°	2156	2177	2193
20°	2139	2172	2194
25°	2134	2179	2202
30°	2115	2162	2204
35°	2092	2155	2217
40°	2064	2150	2244
45°	2033	2149	2315
50°	1990	2164	2411
55°	1936	2212	2551
60°	1873	2271	2732
65°	1743	2385	2954
70°	1601	2499	3231
75°	1405	2628	3341
80°	1209	2503	2624
85°	1056	1819	1995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.0
10°-20°	220.5	8.5
20°-30°	336.4	13.0
30°-40°	410.7	15.9
40°-50°	439.1	17.0
50°-60°	423.9	16.4
60°-70°	364.9	14.1
70°-80°	246.9	9.6
80°-90°	65.2	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°	633.6	24.5
0°-40°	1044.4	40.4
0°-60°	1907.4	73.8
0°-90°	2584.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2584.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	804	806	810	810	810	76
15°	774	776	781	785	787	218
25°	719	722	734	738	742	331
35°	637	642	656	669	675	399
45°	534	544	565	593	608	412
55°	413	426	472	519	544	370
65°	274	300	375	433	464	272
75°	135	179	253	304	321	145
85°	34	48	59	61	65	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.7	811.7	811.7	811.7	811.7
2.5°	806.1	808.0	811.7	811.7	813.6
5°	804.2	806.1	809.8	809.8	809.8
7.5°	798.5	800.4	804.2	806.1	806.1
10°	792.7	794.7	798.5	800.4	802.3
12.5°	783.2	785.1	790.8	794.7	794.7
15°	773.8	775.7	781.3	785.1	787.0
17.5°	762.2	766.2	771.9	775.7	777.5
20°	747.1	750.9	758.5	764.3	766.2
22.5°	733.9	737.7	745.2	750.9	754.7
25°	718.6	722.4	733.9	737.7	741.5
27.5°	699.5	703.5	712.9	720.5	726.2
30°	680.6	684.4	695.7	705.4	709.2
32.5°	659.7	665.3	678.7	686.3	692.0
35°	636.8	642.5	655.9	669.1	675.0
37.5°	614.1	619.8	633.0	650.2	657.8
40°	587.5	595.1	612.1	634.9	638.7
42.5°	562.8	572.2	587.5	614.1	623.6
45°	534.2	543.7	564.6	593.2	608.3
47.5°	507.6	517.0	539.9	574.1	593.2
50°	475.3	488.5	517.0	557.1	576.0
52.5°	444.9	456.2	494.4	538.0	560.9
55°	412.6	425.8	471.5	518.9	543.7
57.5°	384.0	395.4	446.8	500.0	528.6
60°	348.0	363.1	422.0	479.1	507.6
62.5°	309.8	332.7	397.3	456.2	486.6
65°	273.7	300.4	374.6	433.4	464.0
67.5°	241.4	269.9	346.1	408.8	437.3
70°	203.5	239.5	317.6	378.4	410.7
72.5°	169.3	209.1	285.3	346.1	374.6
75°	135.1	178.7	252.8	304.1	321.3
77.5°	104.5	146.4	216.7	232.0	233.9
80°	78.0	116.0	161.5	163.4	169.3
82.5°	53.3	81.8	104.5	114.1	116.0
85°	34.2	47.6	58.9	60.8	64.6
87.5°	15.3	17.2	21.0	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)