

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: P475146

Luminaire Tested: **22CZ2-34HE-HRP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475146
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-HRP-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ HRP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2775.2 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

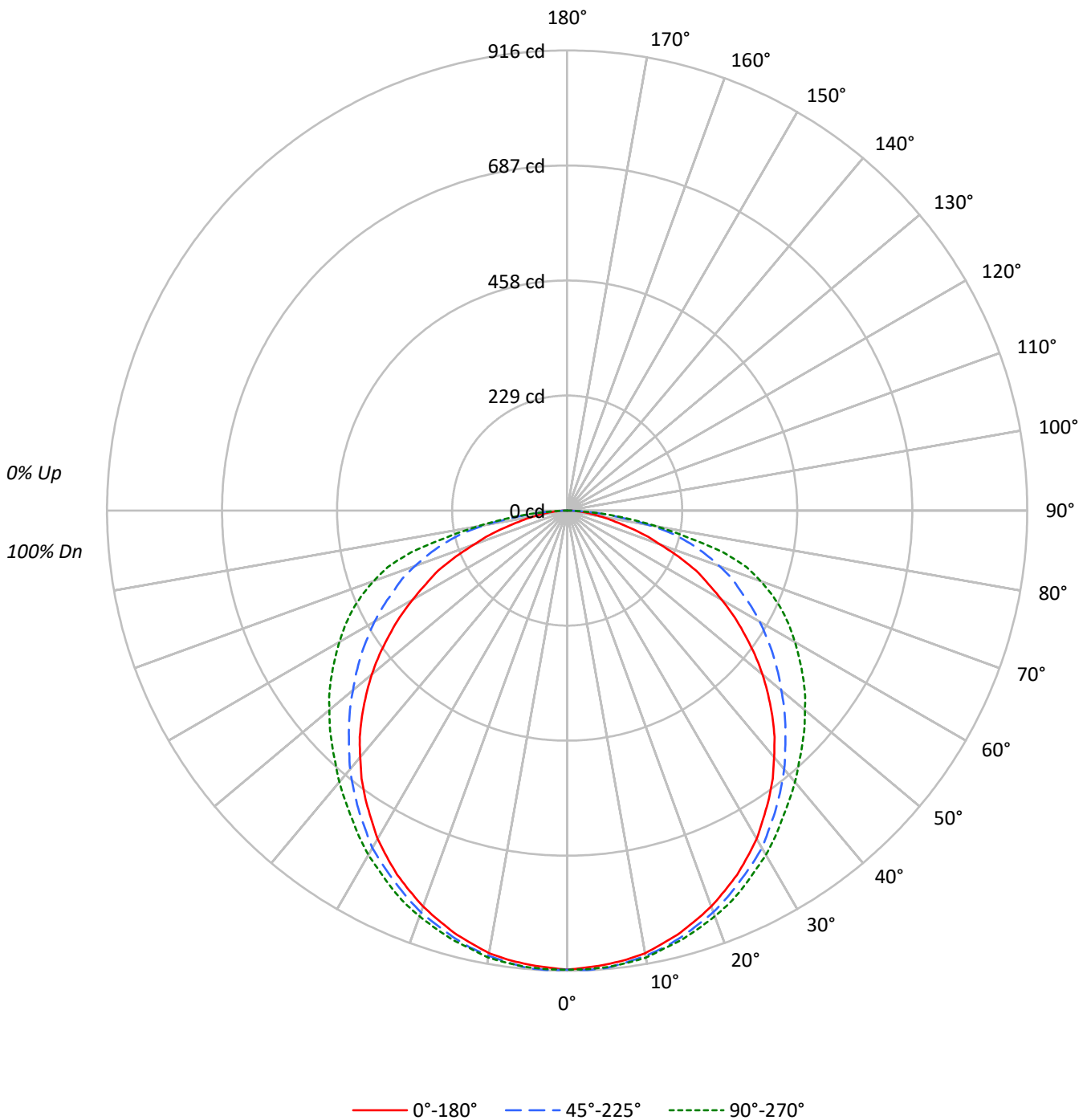
Input Watts (W): 24.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	84	78	73		80	75	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	43	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2459	2459	2459
5°	2450	2468	2464
10°	2444	2459	2469
15°	2424	2448	2463
20°	2401	2436	2461
25°	2376	2417	2459
30°	2344	2410	2459
35°	2300	2381	2456
40°	2251	2361	2478
45°	2199	2339	2518
50°	2125	2331	2587
55°	2029	2349	2686
60°	1913	2384	2817
65°	1806	2430	3010
70°	1543	2534	3223
75°	1292	2640	3349
80°	1060	2549	2794
85°	917	1890	2053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.1
10°-20°	247.7	8.9
20°-30°	375.5	13.5
30°-40°	453.4	16.3
40°-50°	476.4	17.2
50°-60°	448.2	16.2
60°-70°	373.7	13.5
70°-80°	247.6	8.9
80°-90°	66.0	2.4
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°	709.8	25.6
0°-40°	1163.2	41.9
0°-60°	2087.8	75.2
0°-90°	2775.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	907	908	914	914	912	86
15°	870	874	879	882	884	245
25°	800	805	814	824	828	368
35°	700	707	725	741	748	438
45°	578	586	615	646	662	445
55°	432	452	501	551	572	387
65°	284	308	382	445	473	276
75°	124	173	254	306	322	135
85°	30	46	61	66	66	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.8	913.8	913.8	913.8	913.8
2.5°	910.4	912.1	915.6	915.6	913.8
5°	906.8	908.5	913.8	913.8	912.1
7.5°	901.6	903.4	906.8	910.4	908.5
10°	894.6	896.3	899.9	903.4	903.4
12.5°	882.4	884.1	891.0	892.9	892.9
15°	870.0	873.6	878.8	882.4	884.1
17.5°	854.4	857.8	864.7	871.9	871.9
20°	838.6	842.0	850.8	857.8	859.5
22.5°	819.3	824.5	833.4	842.0	845.6
25°	800.1	805.4	814.0	824.5	828.1
27.5°	777.2	782.5	794.9	807.1	808.8
30°	754.5	759.7	775.5	786.0	791.3
32.5°	726.5	733.5	749.2	765.0	770.3
35°	700.2	707.3	724.8	740.6	747.5
37.5°	672.2	679.2	698.5	717.9	726.5
40°	640.7	649.5	672.2	693.3	705.5
42.5°	611.0	619.8	642.5	670.5	682.7
45°	577.7	586.4	614.6	645.9	661.7
47.5°	542.6	553.1	586.4	625.1	640.7
50°	507.7	519.9	556.7	600.5	617.9
52.5°	470.9	486.7	528.7	576.0	596.9
55°	432.4	451.7	500.7	551.4	572.5
57.5°	395.6	413.2	470.9	525.2	547.9
60°	355.4	378.1	442.9	498.9	523.5
62.5°	316.9	341.5	413.2	472.7	498.9
65°	283.6	308.0	381.7	444.6	472.7
67.5°	239.8	273.1	355.4	414.9	442.9
70°	196.1	241.5	322.1	383.4	409.6
72.5°	162.8	206.6	288.9	350.1	374.7
75°	124.3	173.4	253.9	306.3	322.1
77.5°	92.8	143.5	217.1	243.4	245.1
80°	68.4	110.3	164.5	173.4	180.3
82.5°	47.3	77.0	106.9	117.2	120.8
85°	29.7	45.5	61.2	66.5	66.5
87.5°	15.8	17.5	21.0	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)