

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: P475003

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475003
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-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: 2952.9 lumens
Efficiency: N/A
Efficacy: 90.0 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

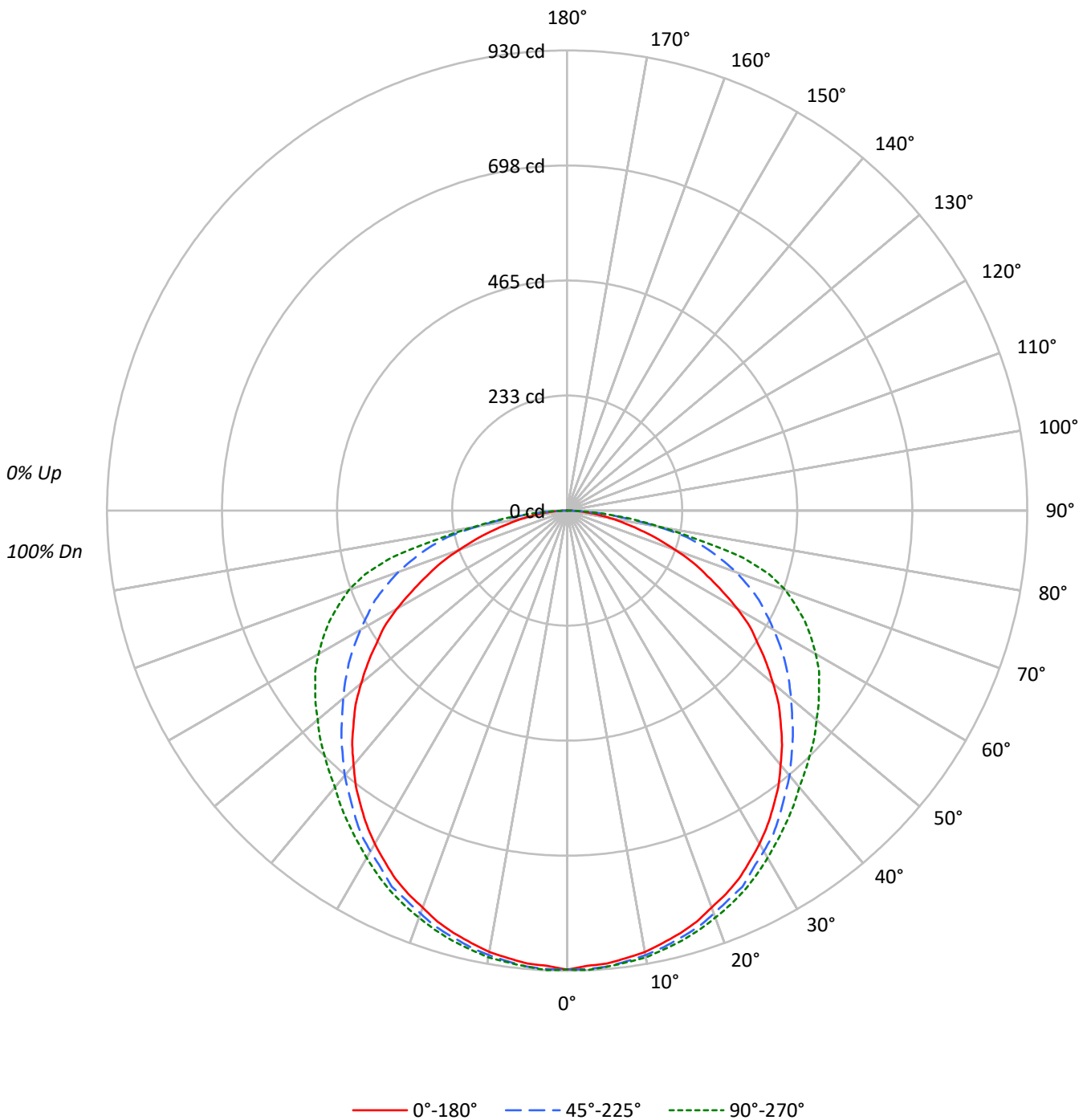
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2496	2496	2496
5°	2482	2499	2499
10°	2475	2493	2505
15°	2463	2487	2505
20°	2445	2482	2507
25°	2438	2490	2515
30°	2417	2470	2518
35°	2390	2462	2533
40°	2358	2457	2564
45°	2323	2455	2645
50°	2274	2473	2755
55°	2212	2528	2914
60°	2140	2595	3122
65°	1992	2725	3375
70°	1829	2854	3692
75°	1604	3003	3818
80°	1381	2859	2997
85°	1207	2078	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.0
10°-20°	251.9	8.5
20°-30°	384.4	13.0
30°-40°	469.3	15.9
40°-50°	501.8	17.0
50°-60°	484.3	16.4
60°-70°	416.9	14.1
70°-80°	282.1	9.6
80°-90°	74.5	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°	724.0	24.5
0°-40°	1193.3	40.4
0°-60°	2179.4	73.8
0°-90°	2952.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	919	921	925	925	925	87
15°	884	886	893	897	899	249
25°	821	825	839	843	847	378
35°	728	734	749	764	771	455
45°	610	621	645	678	695	471
55°	471	486	539	593	621	422
65°	313	343	428	495	530	311
75°	154	204	289	348	367	166
85°	39	54	67	70	74	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.5	927.5	927.5	927.5	927.5
2.5°	921.0	923.2	927.5	927.5	929.7
5°	918.9	921.0	925.3	925.3	925.3
7.5°	912.4	914.5	918.9	921.0	921.0
10°	905.7	908.1	912.4	914.5	916.7
12.5°	894.9	897.1	903.5	908.1	908.1
15°	884.1	886.3	892.7	897.1	899.2
17.5°	870.9	875.5	882.0	886.3	888.4
20°	853.7	858.0	866.6	873.3	875.5
22.5°	838.6	842.9	851.5	858.0	862.3
25°	821.1	825.4	838.6	842.9	847.2
27.5°	799.3	803.8	814.6	823.2	829.7
30°	777.7	782.0	795.0	806.0	810.3
32.5°	753.7	760.2	775.5	784.2	790.6
35°	727.6	734.1	749.4	764.5	771.2
37.5°	701.7	708.2	723.3	742.9	751.6
40°	671.3	679.9	699.3	725.5	729.8
42.5°	643.0	653.8	671.3	701.7	712.5
45°	610.4	621.2	645.2	677.8	695.0
47.5°	580.0	590.8	616.9	656.0	677.8
50°	543.1	558.2	590.8	636.5	658.1
52.5°	508.3	521.3	564.9	614.7	640.9
55°	471.4	486.5	538.8	592.9	621.2
57.5°	438.8	451.8	510.5	571.3	603.9
60°	397.6	414.9	482.2	547.4	580.0
62.5°	354.0	380.1	453.9	521.3	556.0
65°	312.8	343.2	428.0	495.2	530.1
67.5°	275.9	308.4	395.4	467.1	499.7
70°	232.5	273.7	362.8	432.3	469.3
72.5°	193.4	238.9	325.9	395.4	428.0
75°	154.3	204.2	288.8	347.5	367.2
77.5°	119.4	167.3	247.6	265.1	267.2
80°	89.1	132.5	184.5	186.7	193.4
82.5°	60.9	93.5	119.4	130.4	132.5
85°	39.1	54.4	67.3	69.5	73.8
87.5°	17.5	19.6	24.0	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)