

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: P475029

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475029
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-RDP-UNV-L835-CD1-U
Description: 2'X2' 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: 1998.0 lumens
Efficiency: N/A
Efficacy: 95.6 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

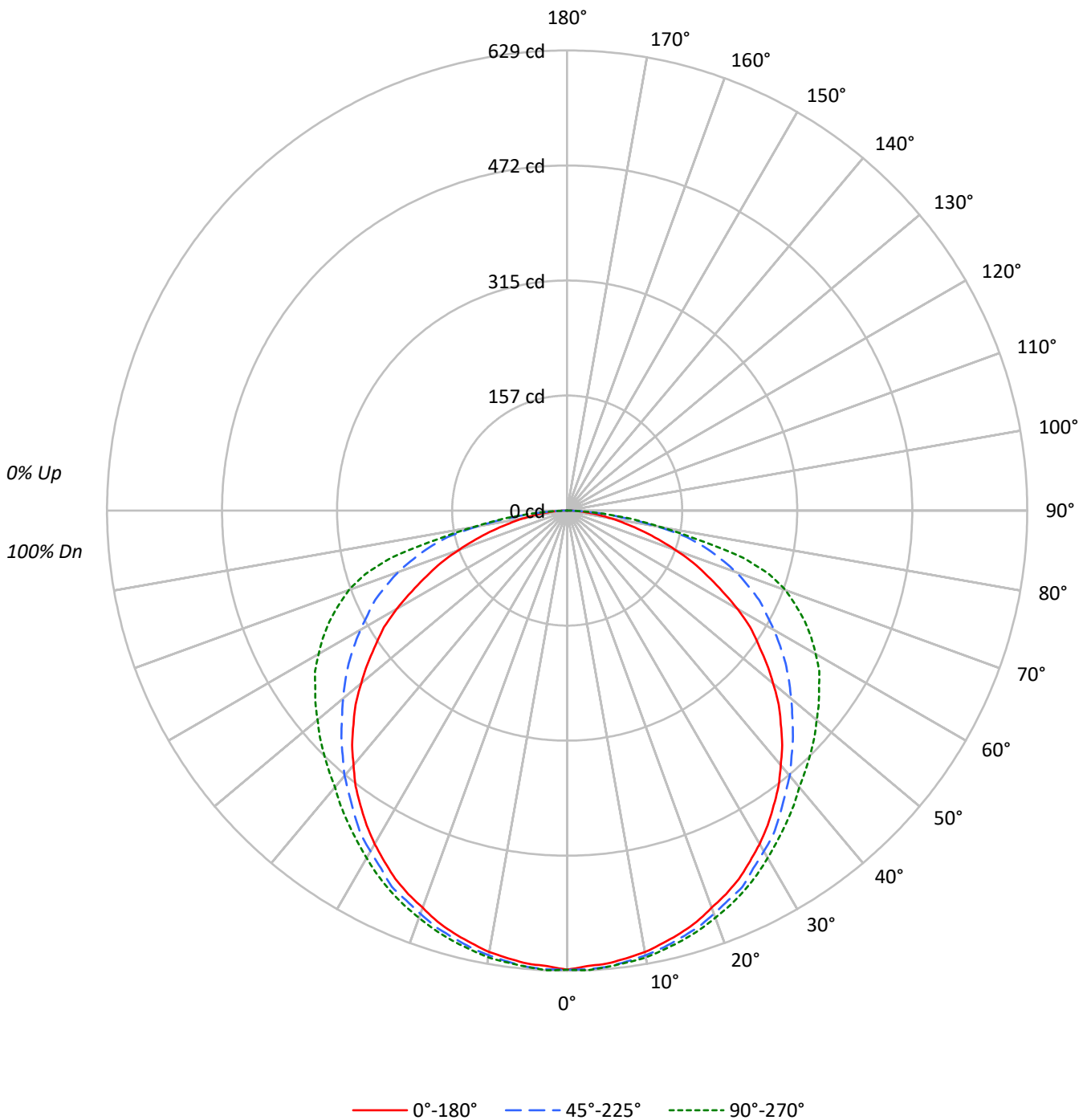
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1689	1689	1689
5°	1679	1691	1691
10°	1674	1687	1695
15°	1667	1683	1695
20°	1654	1679	1696
25°	1650	1685	1702
30°	1635	1671	1704
35°	1617	1666	1714
40°	1596	1662	1735
45°	1572	1661	1790
50°	1539	1673	1864
55°	1497	1710	1972
60°	1448	1756	2112
65°	1347	1844	2284
70°	1238	1932	2498
75°	1085	2032	2583
80°	934	1936	2029
85°	815	1408	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.0
10°-20°	170.5	8.5
20°-30°	260.1	13.0
30°-40°	317.5	15.9
40°-50°	339.5	17.0
50°-60°	327.7	16.4
60°-70°	282.1	14.1
70°-80°	190.9	9.6
80°-90°	50.4	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°	489.9	24.5
0°-40°	807.4	40.4
0°-60°	1474.6	73.8
0°-90°	1998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	622	623	626	626	626	59
15°	598	600	604	607	608	169
25°	556	558	567	570	573	256
35°	492	497	507	517	522	308
45°	413	420	436	459	470	319
55°	319	329	364	401	420	286
65°	212	232	290	335	359	210
75°	104	138	195	235	248	112
85°	26	37	46	47	50	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.6	627.6	627.6	627.6	627.6
2.5°	623.2	624.6	627.6	627.6	629.0
5°	621.7	623.2	626.1	626.1	626.1
7.5°	617.3	618.8	621.7	623.2	623.2
10°	612.8	614.4	617.3	618.8	620.3
12.5°	605.5	607.0	611.4	614.4	614.4
15°	598.2	599.7	604.1	607.0	608.4
17.5°	589.3	592.4	596.8	599.7	601.1
20°	577.6	580.5	586.4	590.9	592.4
22.5°	567.4	570.3	576.2	580.5	583.5
25°	555.6	558.5	567.4	570.3	573.2
27.5°	540.8	543.9	551.2	557.0	561.4
30°	526.2	529.1	537.9	545.3	548.3
32.5°	510.0	514.4	524.8	530.6	535.0
35°	492.3	496.7	507.1	517.3	521.8
37.5°	474.8	479.2	489.4	502.7	508.5
40°	454.2	460.1	473.2	490.9	493.8
42.5°	435.1	442.4	454.2	474.8	482.1
45°	413.0	420.3	436.5	458.6	470.3
47.5°	392.4	399.7	417.4	443.8	458.6
50°	367.5	377.7	399.7	430.7	445.3
52.5°	343.9	352.7	382.2	415.9	433.6
55°	319.0	329.2	364.5	401.2	420.3
57.5°	296.9	305.7	345.4	386.6	408.6
60°	269.0	280.7	326.3	370.4	392.4
62.5°	239.5	257.2	307.1	352.7	376.2
65°	211.6	232.2	289.6	335.0	358.7
67.5°	186.6	208.7	267.6	316.0	338.1
70°	157.3	185.2	245.5	292.5	317.5
72.5°	130.9	161.7	220.5	267.6	289.6
75°	104.4	138.2	195.4	235.1	248.4
77.5°	80.8	113.2	167.5	179.3	180.8
80°	60.3	89.7	124.9	126.3	130.9
82.5°	41.2	63.2	80.8	88.2	89.7
85°	26.4	36.8	45.6	47.0	49.9
87.5°	11.8	13.3	16.2	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)