

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: P475000

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475000
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-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: 1928.1 lumens
Efficiency: N/A
Efficacy: 92.3 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

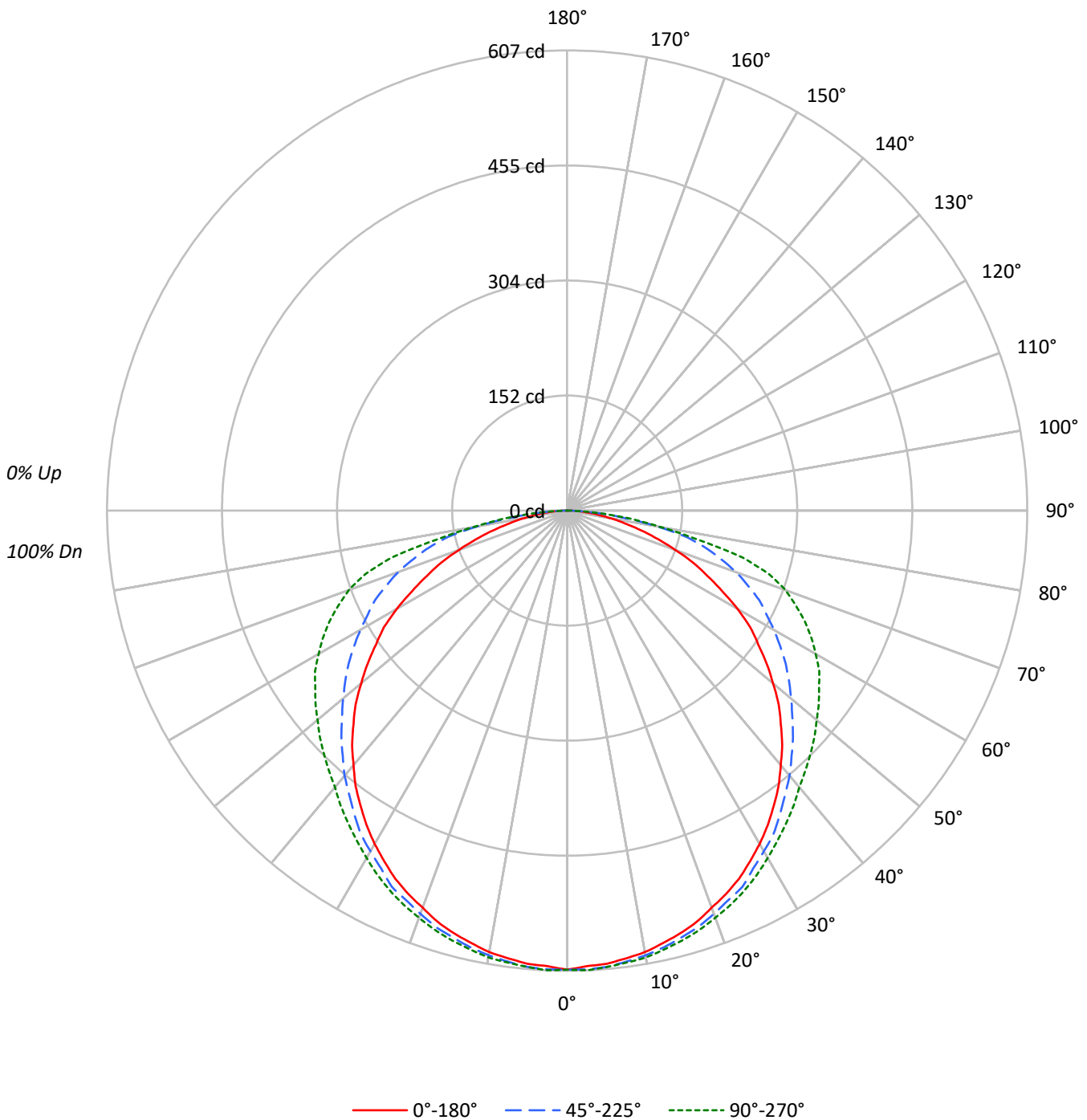
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1630	1630	1630
5°	1621	1632	1632
10°	1616	1628	1636
15°	1608	1624	1636
20°	1596	1621	1637
25°	1592	1626	1643
30°	1578	1613	1644
35°	1561	1607	1654
40°	1540	1604	1674
45°	1517	1603	1727
50°	1485	1615	1799
55°	1444	1650	1903
60°	1397	1695	2038
65°	1300	1780	2204
70°	1194	1864	2411
75°	1048	1961	2492
80°	902	1867	1957
85°	787	1359	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.0
10°-20°	164.5	8.5
20°-30°	251.0	13.0
30°-40°	306.4	15.9
40°-50°	327.6	17.0
50°-60°	316.2	16.4
60°-70°	272.2	14.1
70°-80°	184.2	9.6
80°-90°	48.6	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°	472.7	24.5
0°-40°	779.2	40.4
0°-60°	1423.0	73.8
0°-90°	1928.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1928.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	600	601	604	604	604	57
15°	577	579	583	586	587	163
25°	536	539	548	550	553	247
35°	475	479	489	499	504	297
45°	399	406	421	442	454	308
55°	308	318	352	387	406	276
65°	204	224	280	323	346	203
75°	101	133	189	227	240	108
85°	26	36	44	45	48	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.6	605.6	605.6	605.6	605.6
2.5°	601.4	602.8	605.6	605.6	607.0
5°	600.0	601.4	604.2	604.2	604.2
7.5°	595.7	597.1	600.0	601.4	601.4
10°	591.4	592.9	595.7	597.1	598.6
12.5°	584.3	585.7	590.0	592.9	592.9
15°	577.3	578.7	582.9	585.7	587.1
17.5°	568.7	571.6	575.9	578.7	580.1
20°	557.4	560.2	565.9	570.2	571.6
22.5°	547.5	550.4	556.0	560.2	563.0
25°	536.1	538.9	547.5	550.4	553.2
27.5°	521.9	524.8	531.9	537.5	541.8
30°	507.8	510.6	519.1	526.3	529.1
32.5°	492.2	496.4	506.4	512.0	516.3
35°	475.1	479.3	489.3	499.2	503.6
37.5°	458.2	462.4	472.3	485.1	490.7
40°	438.3	444.0	456.6	473.7	476.5
42.5°	419.9	426.9	438.3	458.2	465.2
45°	398.6	405.6	421.3	442.5	453.8
47.5°	378.7	385.7	402.8	428.3	442.5
50°	354.6	364.5	385.7	415.6	429.7
52.5°	331.9	340.4	368.8	401.4	418.4
55°	307.8	317.7	351.8	387.2	405.6
57.5°	286.5	295.0	333.3	373.1	394.3
60°	259.6	270.9	314.9	357.4	378.7
62.5°	231.1	248.2	296.4	340.4	363.1
65°	204.2	224.1	279.5	323.3	346.1
67.5°	180.1	201.4	258.2	305.0	326.3
70°	151.8	178.7	236.9	282.3	306.4
72.5°	126.3	156.0	212.8	258.2	279.5
75°	100.8	133.3	188.6	226.9	239.7
77.5°	77.9	109.2	161.7	173.1	174.5
80°	58.2	86.5	120.5	121.9	126.3
82.5°	39.7	61.0	77.9	85.1	86.5
85°	25.5	35.5	44.0	45.4	48.2
87.5°	11.4	12.8	15.6	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)