

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: P475058

Luminaire Tested: **22CZ2-29HE-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475058
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-L840-CD1-U
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2035.9 lumens
Efficiency: N/A
Efficacy: 97.4 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

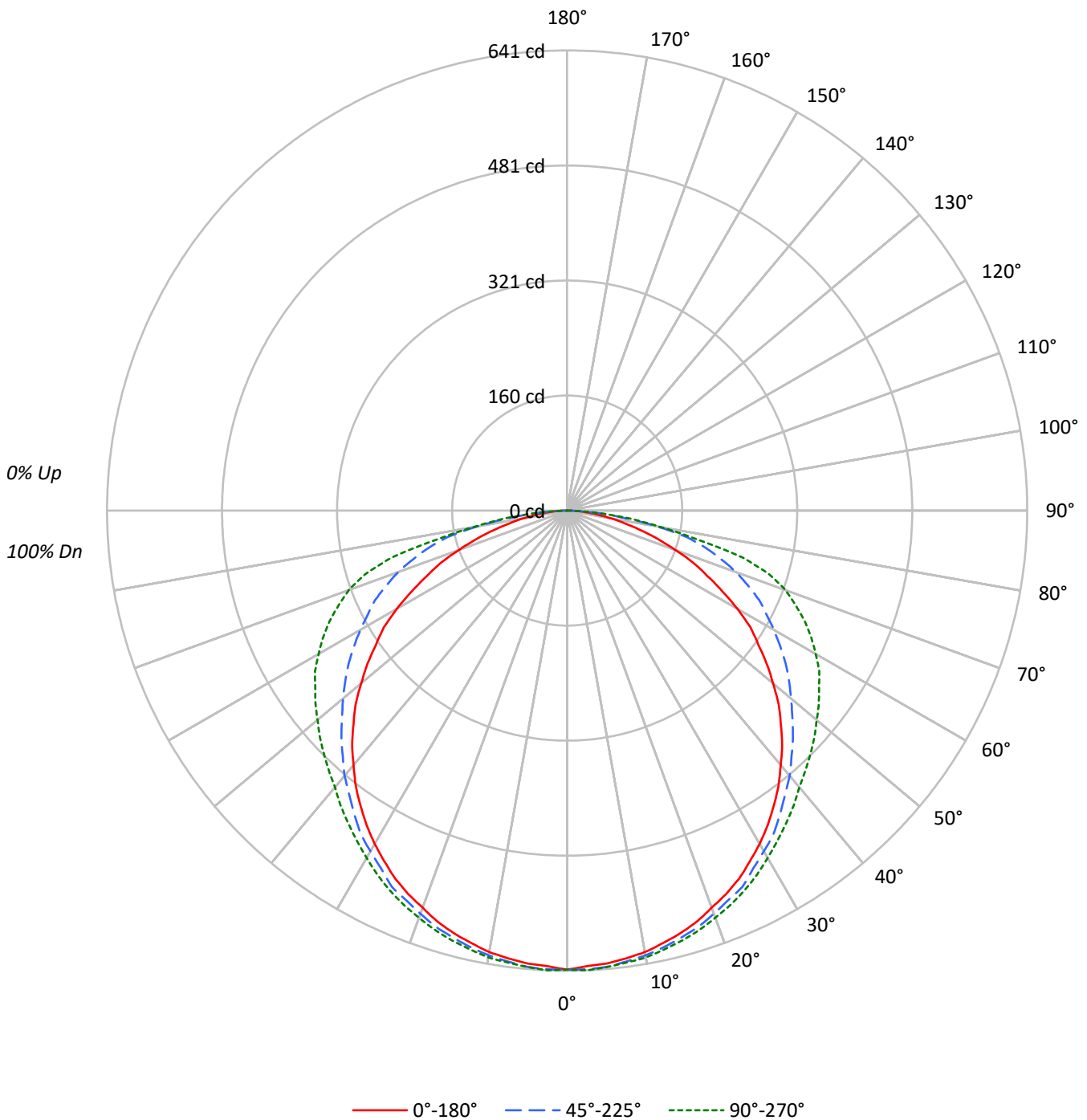
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1721	1721	1721
5°	1711	1723	1723
10°	1706	1719	1727
15°	1698	1715	1727
20°	1686	1711	1729
25°	1681	1717	1734
30°	1666	1703	1736
35°	1648	1697	1747
40°	1626	1694	1768
45°	1602	1693	1824
50°	1567	1705	1900
55°	1525	1743	2009
60°	1475	1790	2152
65°	1373	1879	2327
70°	1261	1969	2545
75°	1106	2070	2632
80°	953	1971	2066
85°	831	1433	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.0
10°-20°	173.7	8.5
20°-30°	265.0	13.0
30°-40°	323.6	15.9
40°-50°	346.0	17.0
50°-60°	333.9	16.4
60°-70°	287.5	14.1
70°-80°	194.5	9.6
80°-90°	51.3	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°	499.2	24.5
0°-40°	822.8	40.4
0°-60°	1502.6	73.8
0°-90°	2035.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2035.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	634	635	638	638	638	60
15°	610	611	616	618	620	172
25°	566	569	578	581	584	261
35°	502	506	517	527	532	314
45°	421	428	445	467	479	325
55°	325	335	372	409	428	291
65°	216	237	295	341	366	214
75°	106	141	199	240	253	114
85°	27	38	46	48	51	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639.5	639.5	639.5	639.5	639.5
2.5°	635.0	636.5	639.5	639.5	641.0
5°	633.5	635.0	638.0	638.0	638.0
7.5°	629.1	630.6	633.5	635.0	635.0
10°	624.5	626.1	629.1	630.6	632.1
12.5°	617.0	618.5	623.0	626.1	626.1
15°	609.6	611.1	615.5	618.5	620.0
17.5°	600.5	603.6	608.1	611.1	612.6
20°	588.6	591.6	597.5	602.1	603.6
22.5°	578.2	581.2	587.1	591.6	594.5
25°	566.1	569.1	578.2	581.2	584.1
27.5°	551.1	554.2	561.7	567.6	572.1
30°	536.2	539.2	548.1	555.7	558.7
32.5°	519.7	524.2	534.7	540.7	545.1
35°	501.7	506.1	516.7	527.1	531.7
37.5°	483.8	488.3	498.7	512.2	518.2
40°	462.8	468.8	482.2	500.2	503.2
42.5°	443.3	450.8	462.8	483.8	491.3
45°	420.9	428.3	444.8	467.3	479.2
47.5°	399.9	407.3	425.3	452.3	467.3
50°	374.4	384.9	407.3	438.9	453.8
52.5°	350.5	359.4	389.5	423.8	441.9
55°	325.0	335.4	371.5	408.8	428.3
57.5°	302.6	311.5	352.0	393.9	416.4
60°	274.1	286.0	332.5	377.4	399.9
62.5°	244.1	262.1	313.0	359.4	383.4
65°	215.6	236.6	295.1	341.4	365.5
67.5°	190.2	212.7	272.6	322.1	344.5
70°	160.3	188.7	250.2	298.1	323.5
72.5°	133.3	164.7	224.7	272.6	295.1
75°	106.4	140.8	199.1	239.6	253.1
77.5°	82.3	115.3	170.7	182.8	184.2
80°	61.5	91.4	127.2	128.7	133.3
82.5°	42.0	64.4	82.3	89.9	91.4
85°	26.9	37.5	46.4	47.9	50.9
87.5°	12.1	13.5	16.5	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)