

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: P274756

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P274756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-RDP-UNV-L935-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (196) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1916.0 lumens
Efficiency: N/A
Efficacy: 74.3 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

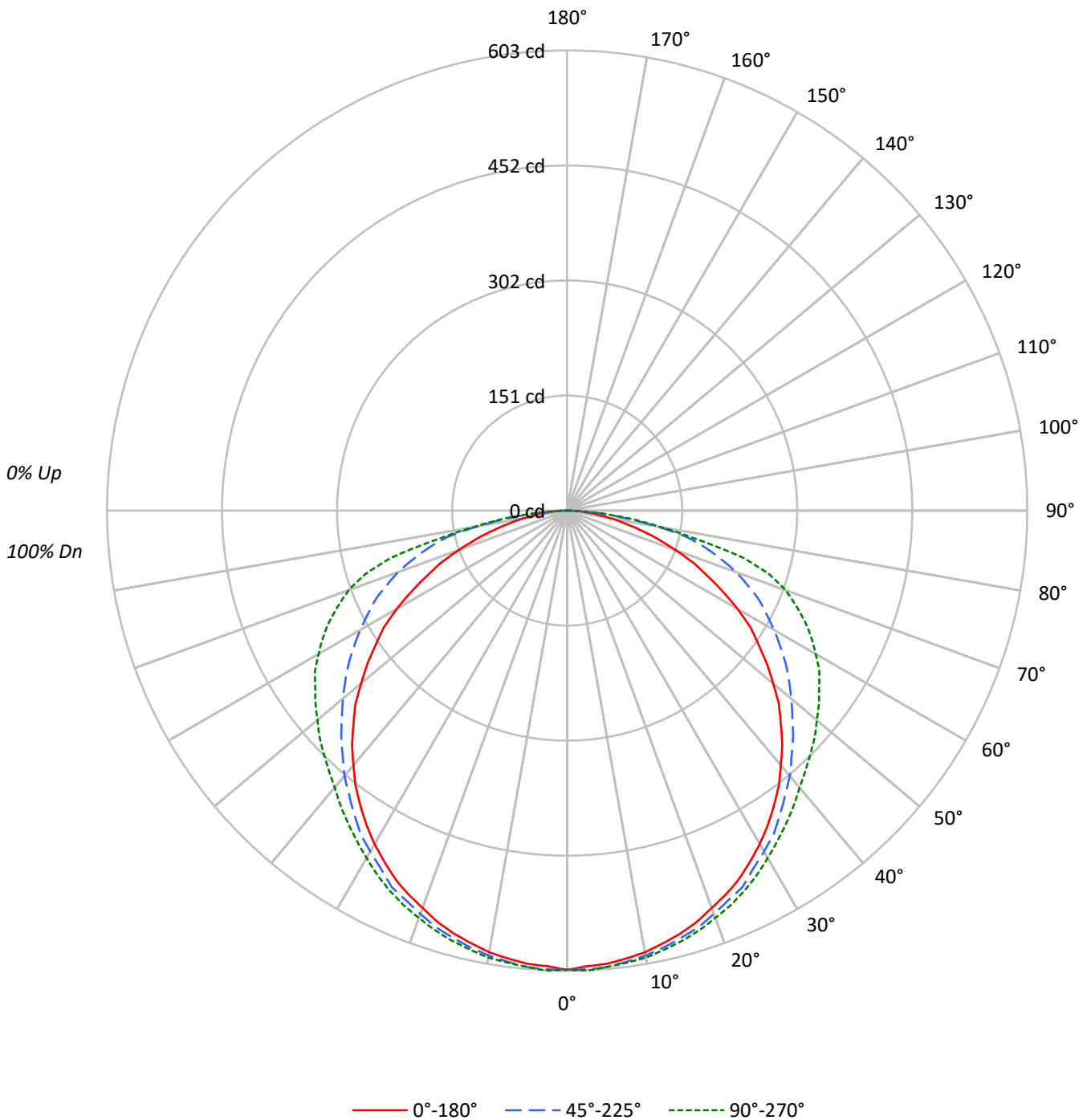
Input Watts (W): 25.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1619	1619	1619
5°	1610	1622	1622
10°	1606	1618	1625
15°	1598	1614	1626
20°	1586	1611	1627
25°	1582	1616	1632
30°	1568	1603	1633
35°	1551	1598	1644
40°	1530	1594	1664
45°	1507	1593	1716
50°	1475	1605	1788
55°	1435	1640	1891
60°	1388	1684	2025
65°	1293	1768	2190
70°	1186	1852	2395
75°	1041	1949	2477
80°	896	1857	1943
85°	784	1349	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	3.0
10°-20°	163.5	8.5
20°-30°	249.4	13.0
30°-40°	304.5	15.9
40°-50°	325.6	17.0
50°-60°	314.3	16.4
60°-70°	270.5	14.1
70°-80°	183.0	9.6
80°-90°	48.3	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°	469.8	24.5
0°-40°	774.3	40.4
0°-60°	1414.2	73.8
0°-90°	1916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	596	598	600	600	600	57
15°	574	575	579	582	584	162
25°	533	536	544	547	550	245
35°	472	476	486	496	500	295
45°	396	403	419	440	451	306
55°	306	316	350	385	403	274
65°	203	223	278	321	344	202
75°	100	132	188	226	238	107
85°	25	35	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°	601.8	601.8	601.8	601.8	601.8
2.5°	597.6	599.0	601.8	601.8	603.3
5°	596.2	597.6	600.4	600.4	600.4
7.5°	592.0	593.4	596.2	597.6	597.6
10°	587.8	589.2	592.0	593.4	594.8
12.5°	580.7	582.1	586.3	589.2	589.2
15°	573.7	575.1	579.3	582.1	583.5
17.5°	565.2	568.0	572.2	575.1	576.5
20°	553.9	556.7	562.4	566.6	568.0
22.5°	544.1	546.9	552.5	556.7	559.6
25°	532.8	535.6	544.1	546.9	549.7
27.5°	518.7	521.5	528.6	534.2	538.4
30°	504.6	507.4	515.9	522.9	525.7
32.5°	489.1	493.3	503.2	508.8	513.1
35°	472.2	476.4	486.3	496.1	500.4
37.5°	455.3	459.5	469.4	482.0	487.7
40°	435.5	441.2	453.9	470.8	473.6
42.5°	417.2	424.3	435.5	455.3	462.3
45°	396.1	403.1	418.6	439.8	451.0
47.5°	376.3	383.4	400.3	425.7	439.8
50°	352.4	362.2	383.4	413.0	427.1
52.5°	329.8	338.3	366.5	398.9	415.8
55°	305.9	315.7	349.6	384.8	403.1
57.5°	284.7	293.2	331.2	370.7	391.8
60°	257.9	269.2	312.9	355.2	376.3
62.5°	229.7	246.7	294.6	338.3	360.8
65°	203.0	222.7	277.7	321.4	343.9
67.5°	179.0	200.1	256.5	303.0	324.2
70°	150.8	177.6	235.4	280.5	304.4
72.5°	125.4	155.0	211.4	256.5	277.7
75°	100.1	132.5	187.5	225.5	238.2
77.5°	77.5	108.5	160.7	172.0	173.4
80°	57.8	86.0	119.8	121.2	125.4
82.5°	39.5	60.6	77.5	84.6	86.0
85°	25.4	35.2	43.7	45.1	47.9
87.5°	11.3	12.7	15.5	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)