

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: P274782

Luminaire Tested: **24CZ2-30-RDP-UNV-L950-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: P274782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-RDP-UNV-L950-CD1-U
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1849.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

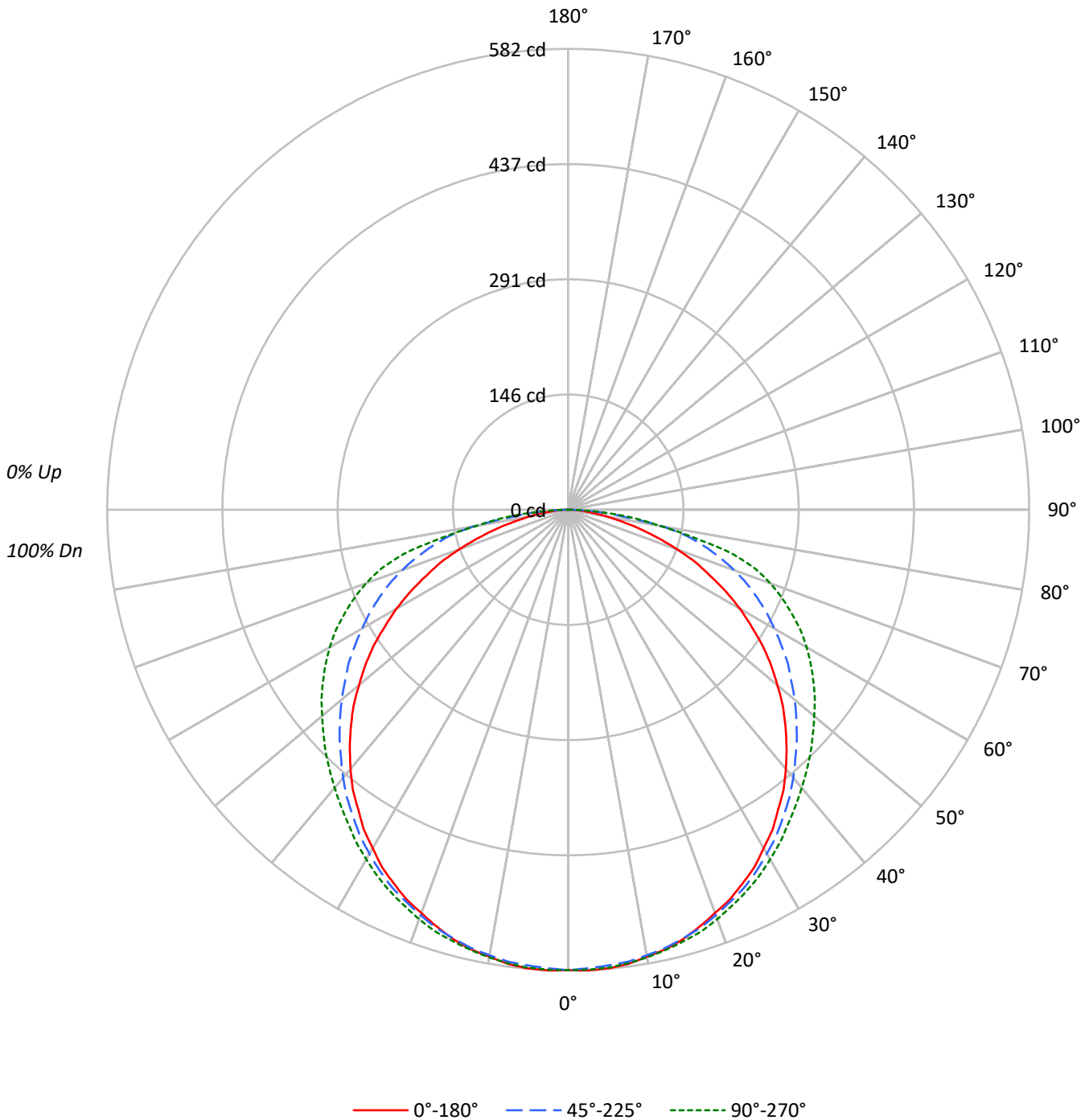
Input Watts (W): 24.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	782	782	782
5°	785	780	784
10°	783	781	784
15°	782	781	786
20°	776	780	788
25°	773	781	790
30°	767	779	792
35°	759	777	795
40°	751	777	805
45°	738	777	824
50°	722	781	849
55°	704	794	886
60°	674	809	935
65°	631	838	993
70°	574	877	1068
75°	486	925	1116
80°	384	931	903
85°	283	709	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	3.0
10°-20°	158.7	8.6
20°-30°	242.7	13.1
30°-40°	296.8	16.0
40°-50°	316.3	17.1
50°-60°	302.4	16.4
60°-70°	256.2	13.9
70°-80°	172.2	9.3
80°-90°	48.6	2.6
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°	456.6	24.7
0°-40°	753.4	40.7
0°-60°	1372.1	74.2
0°-90°	1849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	582	580	578	580	580	55
15°	561	561	560	565	564	158
25°	521	523	526	531	532	240
35°	462	466	473	482	484	290
45°	388	394	408	426	433	299
55°	300	311	338	365	378	267
65°	198	218	263	298	312	197
75°	94	128	178	208	215	100
85°	18	38	46	50	51	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	581.5	581.5	581.5	581.5	581.5
2.5°	582.4	582.4	579.6	581.5	581.5
5°	581.5	580.5	577.8	580.5	580.5
7.5°	578.7	577.8	576.0	578.7	577.8
10°	573.2	573.2	571.4	574.1	574.1
12.5°	568.6	567.7	566.8	570.5	569.5
15°	561.3	561.3	560.4	564.9	564.0
17.5°	552.1	553.0	553.9	557.6	558.5
20°	542.0	543.9	544.8	550.3	550.3
22.5°	532.9	533.8	535.6	541.1	541.1
25°	520.9	522.8	526.4	531.0	531.9
27.5°	509.0	509.9	514.5	520.9	521.8
30°	493.4	496.2	501.7	509.0	509.9
32.5°	479.7	482.4	488.8	496.2	498.0
35°	462.2	465.9	473.2	482.4	484.2
37.5°	446.6	449.4	458.6	468.7	471.4
40°	427.4	432.9	442.1	454.0	458.6
42.5°	408.1	413.6	424.6	440.2	445.7
45°	387.9	394.4	408.1	425.5	432.9
47.5°	367.8	375.1	390.7	410.9	419.1
50°	344.8	354.0	373.3	396.2	405.4
52.5°	322.8	333.8	354.9	380.6	392.5
55°	299.9	310.9	338.4	365.0	377.9
57.5°	274.2	288.9	319.2	349.4	363.2
60°	250.4	264.1	300.8	333.8	347.6
62.5°	224.7	243.0	282.5	317.3	331.1
65°	198.1	218.3	263.2	298.1	311.8
67.5°	174.3	196.3	244.0	278.8	292.6
70°	145.8	173.3	222.9	257.7	271.5
72.5°	119.2	149.5	200.9	234.8	247.6
75°	93.5	127.5	177.9	208.2	214.6
77.5°	69.7	105.5	154.1	166.9	162.3
80°	49.5	84.4	120.1	113.7	116.5
82.5°	32.1	64.2	74.3	84.4	87.1
85°	18.3	37.6	45.9	49.5	51.4
87.5°	8.3	13.8	18.3	18.3	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)