

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: P271992

Luminaire Tested: **22CZ2-34HE-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: P271992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-UNV-L950-CD1-U
Description: 2'X2' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (196) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3070.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

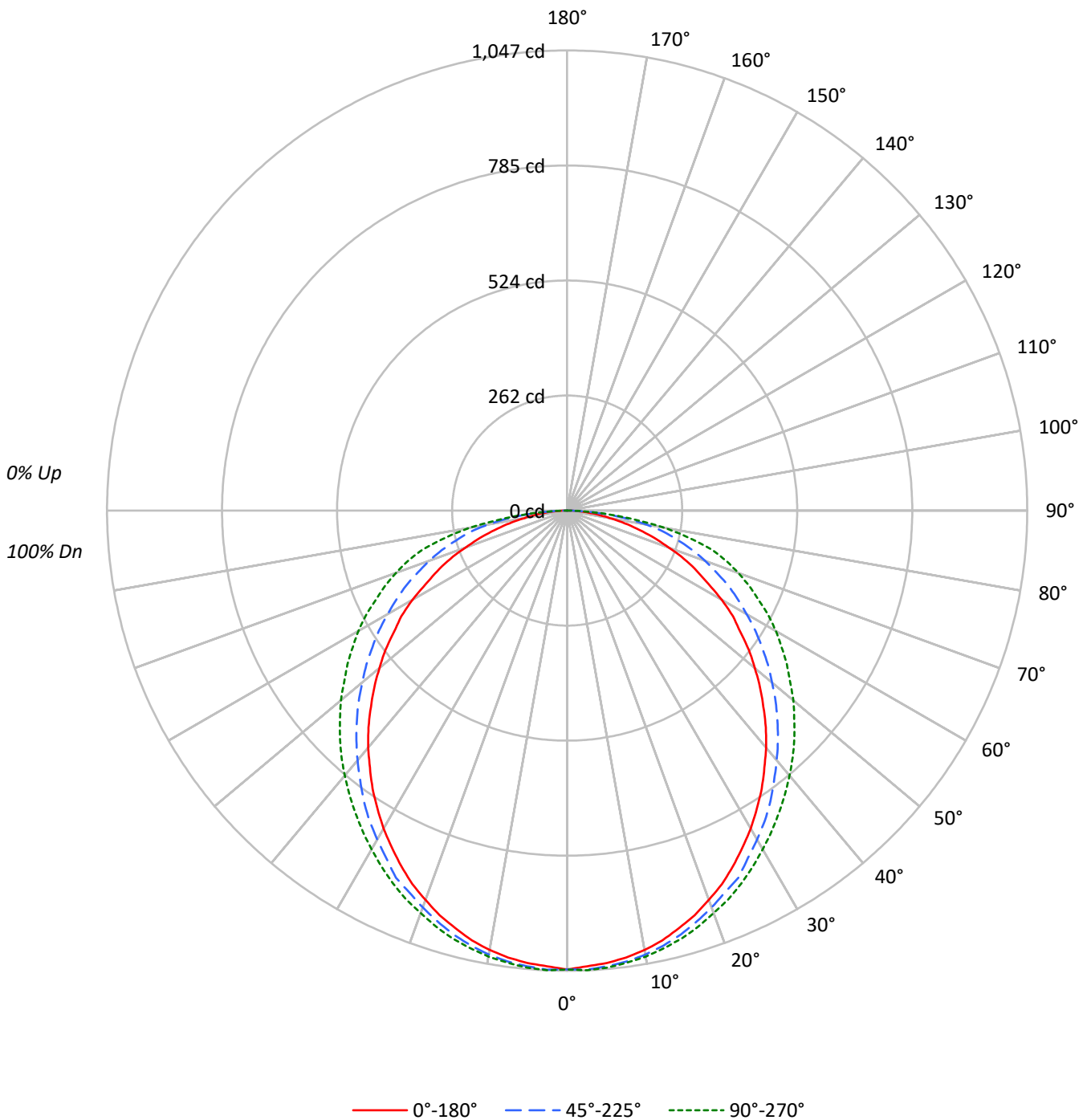
Input Watts (W): 25.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2809	2809	2809
5°	2791	2811	2820
10°	2774	2803	2815
15°	2740	2782	2807
20°	2699	2751	2790
25°	2651	2736	2781
30°	2596	2685	2765
35°	2536	2650	2759
40°	2473	2605	2765
45°	2403	2576	2783
50°	2334	2549	2814
55°	2254	2537	2863
60°	2187	2537	2951
65°	2078	2578	3059
70°	1937	2627	3257
75°	1775	2717	3518
80°	1545	2833	3465
85°	1352	2519	2751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.2
10°-20°	281.2	9.2
20°-30°	422.1	13.7
30°-40°	504.4	16.4
40°-50°	524.5	17.1
50°-60°	486.1	15.8
60°-70°	398.7	13.0
70°-80°	269.5	8.8
80°-90°	84.7	2.8
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°	802.0	26.1
0°-40°	1306.4	42.6
0°-60°	2317.0	75.5
0°-90°	3070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1033	1035	1041	1042	1044	98
15°	983	988	998	1005	1008	277
25°	893	900	922	932	937	411
35°	772	782	807	831	840	482
45°	632	644	677	716	731	488
55°	480	496	541	589	610	432
65°	326	344	405	458	480	323
75°	171	199	261	314	338	181
85°	44	60	82	91	89	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.9	1043.9	1043.9	1043.9	1043.9
2.5°	1037.8	1040.8	1045.4	1046.9	1046.9
5°	1033.3	1034.8	1040.8	1042.3	1043.9
7.5°	1025.7	1028.8	1034.8	1036.3	1037.8
10°	1015.2	1018.2	1025.7	1028.8	1030.3
12.5°	1001.6	1004.6	1013.6	1018.2	1019.7
15°	983.4	988.0	998.5	1004.6	1007.6
17.5°	965.3	969.8	980.4	989.5	992.5
20°	942.6	953.2	960.8	972.9	974.4
22.5°	920.0	926.0	939.6	951.7	957.7
25°	892.8	900.3	921.5	932.1	936.6
27.5°	864.1	874.7	891.3	907.9	913.9
30°	835.4	842.9	864.1	883.7	889.8
32.5°	803.7	814.2	836.9	856.5	865.6
35°	771.9	782.5	806.7	830.9	839.9
37.5°	737.2	749.3	773.5	802.2	814.2
40°	704.0	713.0	741.7	776.5	787.0
42.5°	669.2	679.8	710.0	747.8	759.9
45°	631.5	643.5	676.8	716.0	731.2
47.5°	595.2	607.3	643.5	682.8	700.9
50°	557.4	572.5	608.8	654.1	672.2
52.5°	521.2	534.8	575.6	622.4	639.0
55°	480.4	495.5	540.8	589.2	610.3
57.5°	447.2	457.7	507.6	557.4	578.6
60°	406.4	420.0	471.3	524.2	548.4
62.5°	362.6	385.2	438.1	492.5	516.6
65°	326.3	344.4	404.9	457.7	480.4
67.5°	288.5	308.2	367.1	423.0	448.7
70°	246.2	271.9	333.9	389.7	413.9
72.5°	208.5	235.7	299.1	353.5	379.2
75°	170.7	199.4	261.3	314.2	338.4
77.5°	134.4	166.2	226.6	267.4	282.5
80°	99.7	129.9	182.8	211.5	223.6
82.5°	69.5	95.2	134.4	149.6	152.6
85°	43.8	60.4	81.6	90.6	89.1
87.5°	19.6	24.2	30.2	33.2	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)