

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: P274770

Luminaire Tested: **22CZ2-44HE-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: P274770
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: 22CZ2-44HE-RDP-UNV-L950-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 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: 2709.0 lumens
Efficiency: N/A
Efficacy: 77.4 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

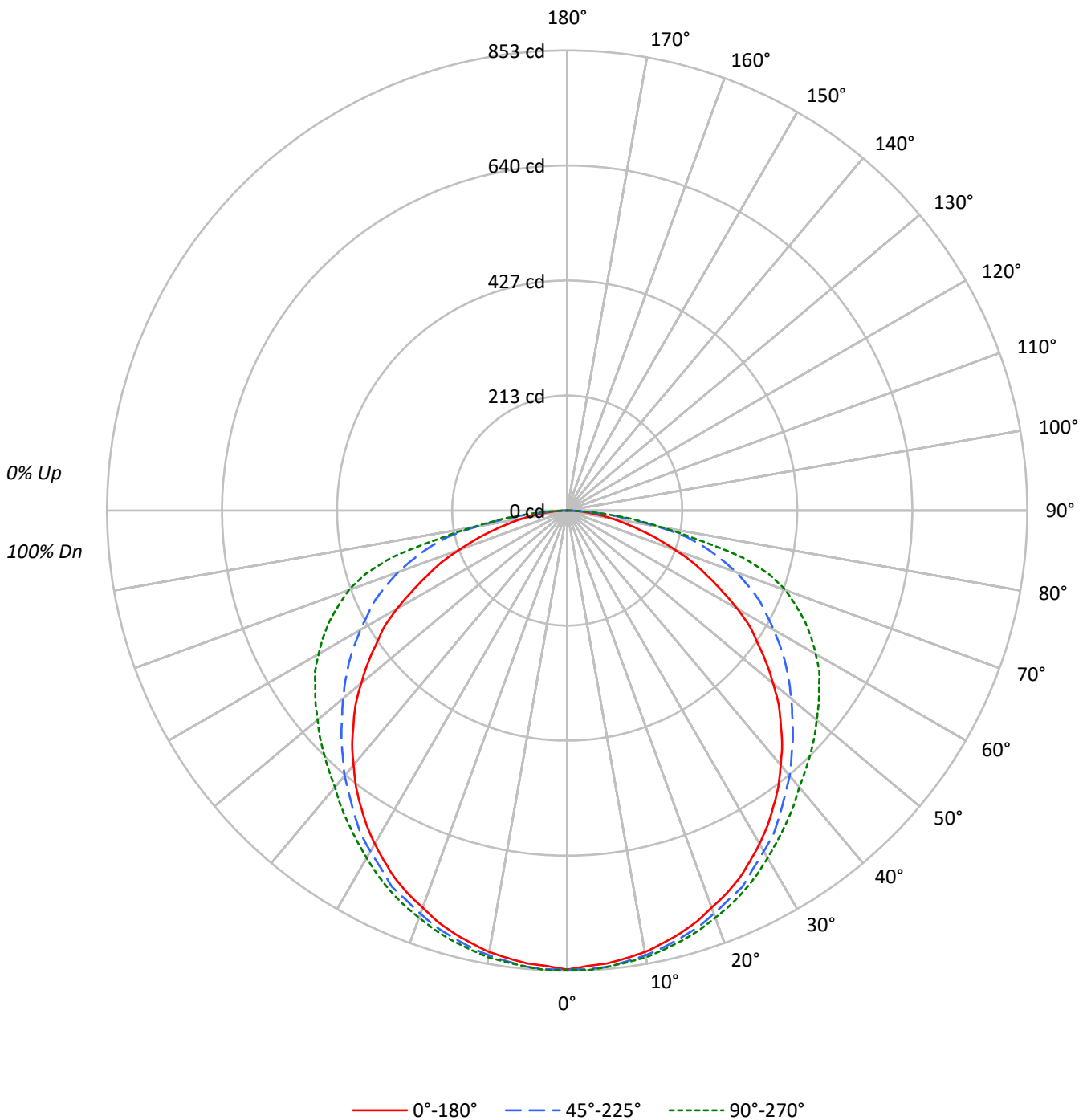
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2290	2290	2290
5°	2277	2293	2293
10°	2271	2287	2298
15°	2260	2282	2298
20°	2243	2277	2300
25°	2237	2284	2308
30°	2217	2266	2310
35°	2193	2258	2324
40°	2163	2254	2352
45°	2131	2253	2427
50°	2086	2269	2528
55°	2029	2319	2674
60°	1963	2381	2864
65°	1827	2500	3096
70°	1677	2618	3387
75°	1471	2755	3502
80°	1266	2625	2749
85°	1108	1908	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.0
10°-20°	231.1	8.5
20°-30°	352.6	13.0
30°-40°	430.5	15.9
40°-50°	460.4	17.0
50°-60°	444.3	16.4
60°-70°	382.5	14.1
70°-80°	258.8	9.6
80°-90°	68.3	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°	664.2	24.5
0°-40°	1094.8	40.4
0°-60°	1999.4	73.8
0°-90°	2709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	843	845	849	849	849	80
15°	811	813	819	823	825	229
25°	753	757	769	773	777	347
35°	668	674	688	702	708	418
45°	560	570	592	622	638	432
55°	432	446	494	544	570	388
65°	287	315	393	454	486	285
75°	142	187	265	319	337	152
85°	36	50	62	64	68	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.9	850.9	850.9	850.9	850.9
2.5°	845.0	847.0	850.9	850.9	852.9
5°	843.0	845.0	849.0	849.0	849.0
7.5°	837.0	839.0	843.0	845.0	845.0
10°	831.0	833.0	837.0	839.0	841.0
12.5°	821.1	823.0	829.0	833.0	833.0
15°	811.1	813.1	819.1	823.0	825.0
17.5°	799.1	803.1	809.1	813.1	815.1
20°	783.2	787.2	795.1	801.1	803.1
22.5°	769.2	773.2	781.2	787.2	791.2
25°	753.3	757.3	769.2	773.2	777.2
27.5°	733.4	737.4	747.3	755.3	761.3
30°	713.4	717.4	729.4	739.3	743.3
32.5°	691.5	697.5	711.4	719.4	725.4
35°	667.6	673.6	687.5	701.5	707.5
37.5°	643.7	649.7	663.6	681.6	689.5
40°	615.8	623.8	641.7	665.6	669.6
42.5°	589.9	599.8	615.8	643.7	653.7
45°	560.0	570.0	591.9	621.8	637.7
47.5°	532.1	542.1	566.0	601.8	621.8
50°	498.2	512.2	542.1	583.9	603.8
52.5°	466.3	478.3	518.1	564.0	587.9
55°	432.4	446.4	494.2	544.0	570.0
57.5°	402.6	414.5	468.3	524.1	554.0
60°	364.7	380.6	442.4	502.2	532.1
62.5°	324.8	348.7	416.5	478.3	510.2
65°	287.0	314.9	392.6	454.4	486.3
67.5°	253.1	283.0	362.7	428.5	458.4
70°	213.2	251.1	332.8	396.6	430.5
72.5°	177.4	219.2	298.9	362.7	392.6
75°	141.5	187.3	265.0	318.9	336.8
77.5°	109.6	153.4	227.2	243.1	245.1
80°	81.7	121.6	169.4	171.4	177.4
82.5°	55.8	85.7	109.6	119.6	121.6
85°	35.9	49.8	61.8	63.8	67.8
87.5°	15.9	17.9	21.9	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)