

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: P274766

Luminaire Tested: **22CZ2-39-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: P274766
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: 22CZ2-39-RDP-UNV-L950-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (98) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

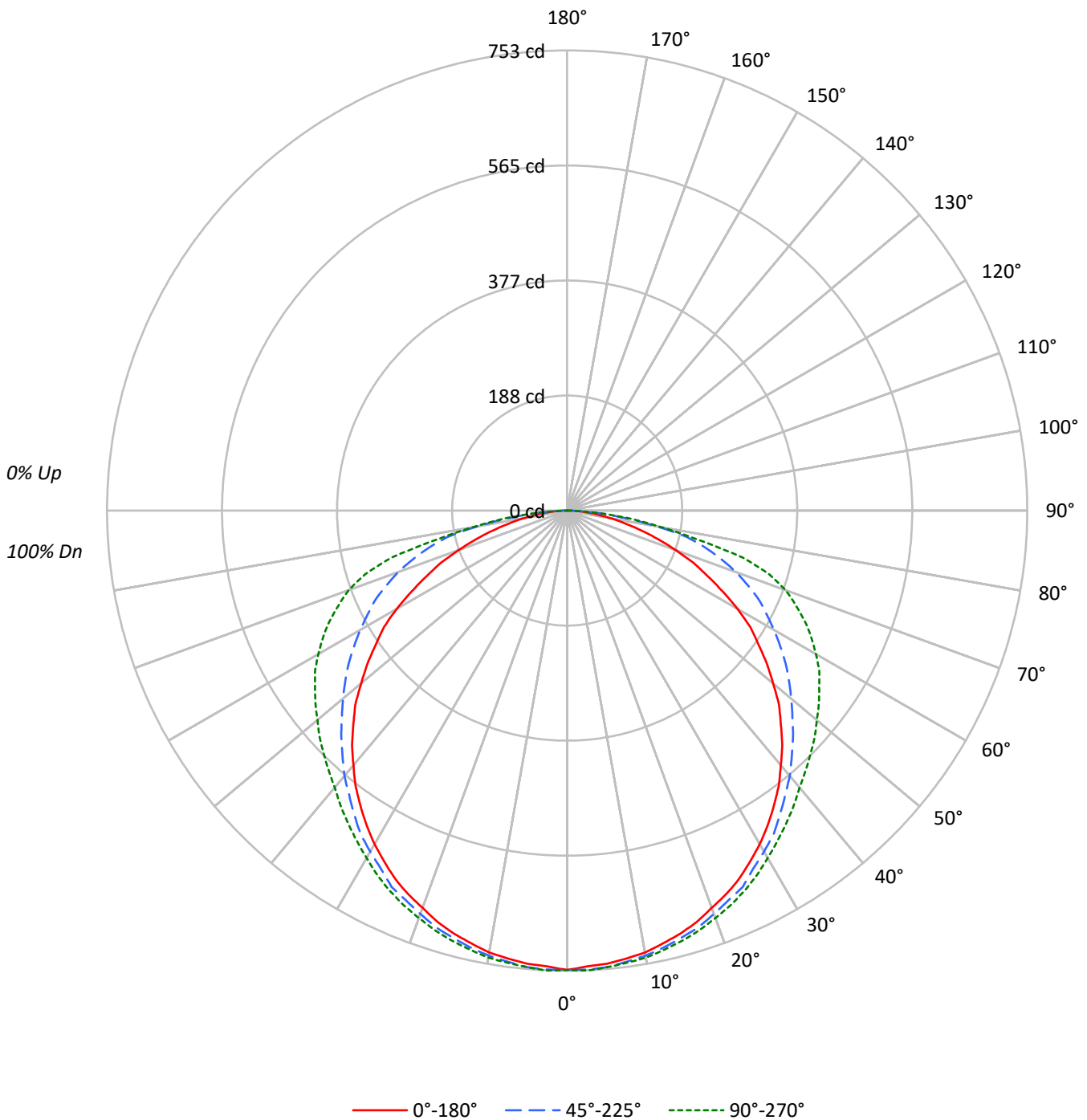
Lumens per Lamp: N/A
Luminaire Lumens: 2393.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.5
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°	2023	2023	2023
5°	2011	2026	2026
10°	2006	2020	2030
15°	1996	2016	2030
20°	1981	2011	2031
25°	1976	2018	2038
30°	1958	2002	2040
35°	1937	1995	2053
40°	1911	1991	2078
45°	1883	1990	2144
50°	1842	2004	2233
55°	1792	2048	2362
60°	1734	2103	2530
65°	1614	2208	2735
70°	1482	2313	2991
75°	1300	2434	3093
80°	1119	2318	2428
85°	979	1686	1849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.0
10°-20°	204.2	8.5
20°-30°	311.5	13.0
30°-40°	380.3	15.9
40°-50°	406.6	17.0
50°-60°	392.5	16.4
60°-70°	337.9	14.1
70°-80°	228.6	9.6
80°-90°	60.3	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°	586.7	24.5
0°-40°	967.0	40.4
0°-60°	1766.2	73.8
0°-90°	2393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	745	746	750	750	750	71
15°	716	718	724	727	729	202
25°	665	669	680	683	686	306
35°	590	595	607	620	625	369
45°	495	504	523	549	563	382
55°	382	394	437	481	504	342
65°	254	278	347	401	430	252
75°	125	166	234	282	298	134
85°	32	44	55	56	60	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.7	751.7	751.7	751.7	751.7
2.5°	746.4	748.2	751.7	751.7	753.4
5°	744.6	746.4	749.9	749.9	749.9
7.5°	739.4	741.1	744.6	746.4	746.4
10°	734.1	735.8	739.4	741.1	742.9
12.5°	725.3	727.0	732.3	735.8	735.8
15°	716.5	718.2	723.5	727.0	728.8
17.5°	705.9	709.4	714.7	718.2	720.0
20°	691.8	695.4	702.4	707.7	709.4
22.5°	679.5	683.0	690.1	695.4	698.9
25°	665.4	668.9	679.5	683.0	686.5
27.5°	647.8	651.3	660.1	667.2	672.5
30°	630.2	633.7	644.3	653.1	656.6
32.5°	610.9	616.1	628.5	635.5	640.8
35°	589.7	595.0	607.3	619.7	624.9
37.5°	568.6	573.9	586.2	602.1	609.1
40°	544.0	551.0	566.8	588.0	591.5
42.5°	521.1	529.9	544.0	568.6	577.4
45°	494.7	503.5	522.8	549.2	563.3
47.5°	470.0	478.8	499.9	531.6	549.2
50°	440.1	452.4	478.8	515.8	533.4
52.5°	411.9	422.5	457.7	498.2	519.3
55°	382.0	394.3	436.6	480.6	503.5
57.5°	355.6	366.2	413.7	463.0	489.4
60°	322.1	336.2	390.8	443.6	470.0
62.5°	286.9	308.1	367.9	422.5	450.7
65°	253.5	278.1	346.8	401.4	429.5
67.5°	223.6	250.0	320.4	378.5	404.9
70°	188.4	221.8	294.0	350.3	380.2
72.5°	156.7	193.6	264.1	320.4	346.8
75°	125.0	165.5	234.1	281.7	297.5
77.5°	96.8	135.5	200.7	214.8	216.5
80°	72.2	107.4	149.6	151.4	156.7
82.5°	49.3	75.7	96.8	105.6	107.4
85°	31.7	44.0	54.6	56.3	59.9
87.5°	14.1	15.8	19.4	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)