

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: P271935

Luminaire Tested: **14CZ2-25-S-UNV-L940-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: P271935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-S-UNV-L940-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

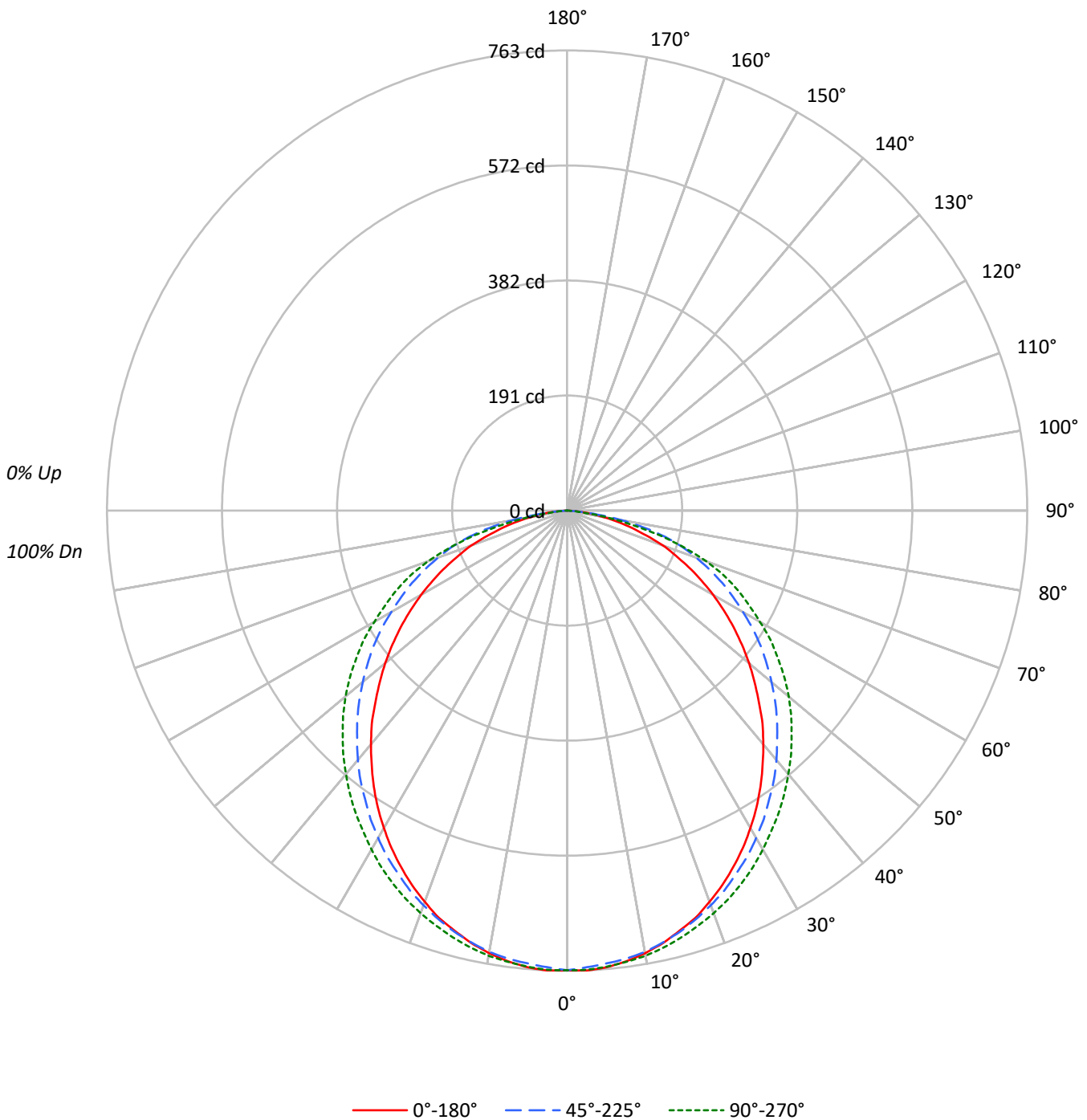
Lumens per Lamp: N/A
Luminaire Lumens: 2135.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2051	2051	2051
5°	2053	2036	2050
10°	2036	2031	2048
15°	2008	2014	2041
20°	1977	1995	2034
25°	1936	1971	2027
30°	1888	1947	2016
35°	1836	1919	2010
40°	1777	1897	2004
45°	1712	1873	2002
50°	1649	1852	2007
55°	1579	1838	2001
60°	1504	1812	1988
65°	1415	1806	1989
70°	1333	1791	1932
75°	1155	1750	1651
80°	934	1410	1099
85°	621	491	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.4
10°-20°	204.8	9.6
20°-30°	307.2	14.4
30°-40°	366.5	17.2
40°-50°	378.9	17.7
50°-60°	345.9	16.2
60°-70°	272.2	12.7
70°-80°	158.4	7.4
80°-90°	29.2	1.4
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°	584.0	27.4
0°-40°	950.4	44.5
0°-60°	1675.2	78.5
0°-90°	2135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	760	758	754	760	759	72
15°	721	722	723	732	732	203
25°	652	655	664	680	683	300
35°	559	566	584	607	612	349
45°	450	465	492	520	526	347
55°	337	355	392	420	427	301
65°	222	246	284	306	312	221
75°	111	138	168	165	159	118
85°	20	29	16	13	11	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.2	762.2	762.2	762.2	762.2
2.5°	763.2	761.1	757.9	763.2	762.2
5°	760.0	757.9	753.7	760.0	759.0
7.5°	753.7	751.6	749.5	755.8	754.7
10°	745.2	744.2	743.1	750.5	749.5
12.5°	734.6	734.6	733.6	742.0	742.0
15°	720.9	721.9	723.0	732.5	732.5
17.5°	708.2	707.1	710.3	720.9	721.9
20°	690.2	692.3	696.5	709.2	710.3
22.5°	672.2	674.3	681.7	694.4	697.6
25°	652.1	655.2	663.7	679.6	682.8
27.5°	630.9	635.1	646.8	663.7	666.9
30°	607.6	614.0	626.7	645.7	648.9
32.5°	584.3	590.7	606.6	625.6	629.8
35°	558.9	566.3	584.3	606.6	611.8
37.5°	532.5	542.0	563.2	585.4	591.7
40°	506.0	516.6	539.9	563.2	570.6
42.5°	479.5	490.1	515.5	542.0	549.4
45°	449.9	464.7	492.2	519.8	526.1
47.5°	421.3	437.2	467.9	495.4	503.9
50°	393.8	409.7	442.5	471.1	479.5
52.5°	365.2	382.1	417.1	446.7	454.1
55°	336.6	354.6	391.7	420.2	426.6
57.5°	308.0	327.1	365.2	392.7	400.1
60°	279.5	299.6	336.6	364.1	369.4
62.5°	250.9	272.0	310.2	334.5	339.8
65°	222.3	245.6	283.7	305.9	312.3
67.5°	194.8	218.1	255.1	276.3	281.6
70°	169.4	190.5	227.6	243.5	245.6
72.5°	137.6	164.1	200.1	208.5	203.2
75°	111.1	137.6	168.3	165.1	158.8
77.5°	84.7	111.1	131.3	120.7	112.2
80°	60.3	86.8	91.0	75.2	70.9
82.5°	39.2	60.3	50.8	39.2	31.8
85°	20.1	28.6	15.9	12.7	10.6
87.5°	6.4	4.2	2.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)