

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: P274701

Luminaire Tested: **14CZ2-25-RDP-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: P274701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-RDP-UNV-L940-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

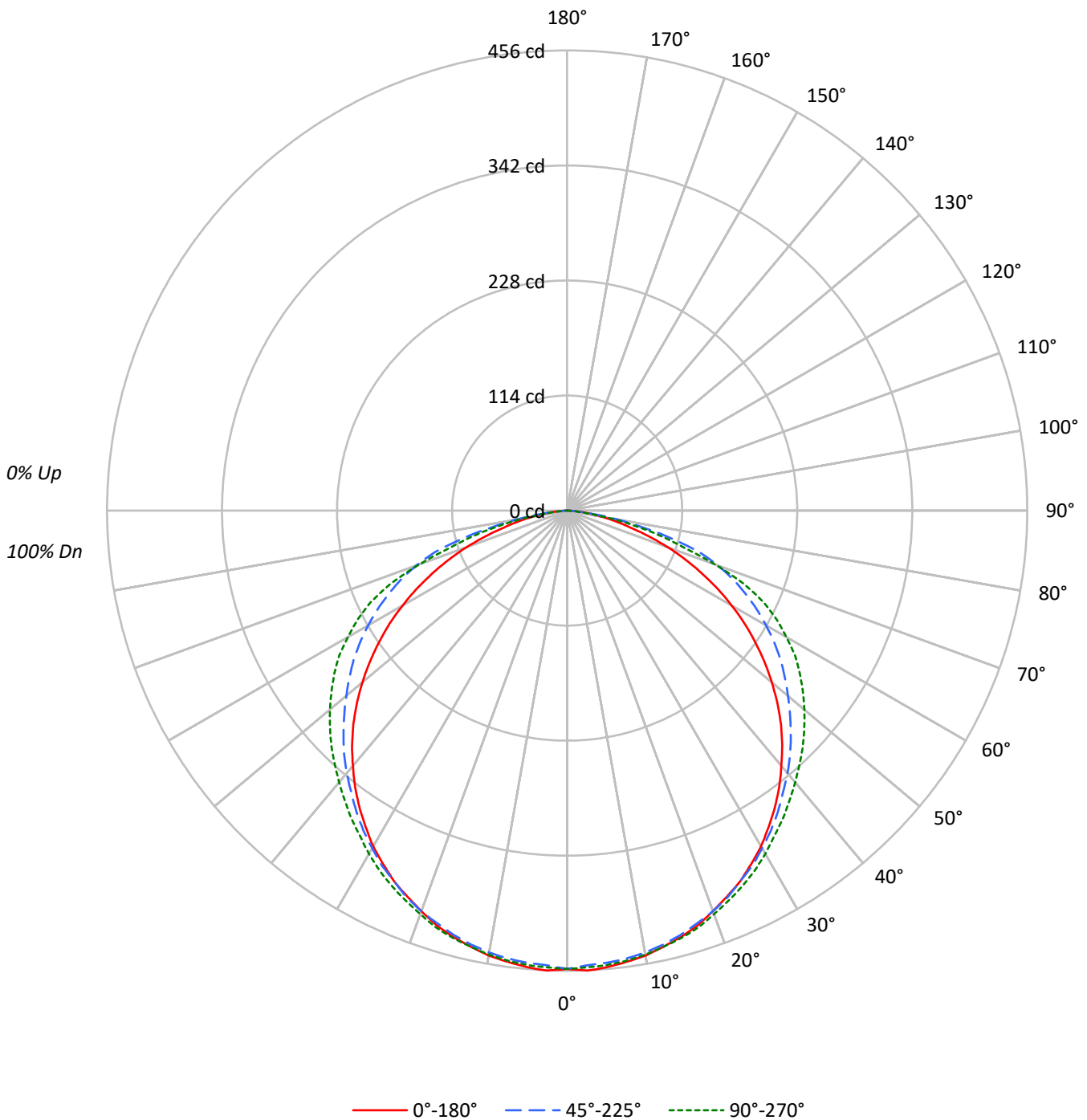
Lumens per Lamp: N/A
Luminaire Lumens: 1356.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1222	1222	1222
5°	1227	1215	1221
10°	1224	1215	1221
15°	1218	1212	1221
20°	1210	1210	1219
25°	1204	1204	1220
30°	1194	1201	1221
35°	1179	1196	1224
40°	1160	1194	1235
45°	1140	1193	1257
50°	1108	1196	1285
55°	1068	1212	1321
60°	1014	1225	1350
65°	937	1240	1368
70°	833	1249	1224
75°	672	1123	979
80°	525	787	640
85°	358	228	164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	3.2
10°-20°	123.3	9.1
20°-30°	187.8	13.8
30°-40°	228.7	16.9
40°-50°	242.7	17.9
50°-60°	229.0	16.9
60°-70°	184.9	13.6
70°-80°	100.3	7.4
80°-90°	16.2	1.2
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°	354.1	26.1
0°-40°	582.8	43.0
0°-60°	1054.5	77.8
0°-90°	1356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	454	453	450	453	452	43
15°	437	436	435	438	438	123
25°	406	404	406	410	411	187
35°	359	361	364	372	373	224
45°	300	304	313	325	330	231
55°	228	237	258	275	282	203
65°	147	165	195	211	215	146
75°	65	94	108	97	94	71
85°	12	13	7	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.2	454.2	454.2	454.2	454.2
2.5°	456.3	454.2	451.0	454.2	453.1
5°	454.2	453.1	449.9	453.1	452.0
7.5°	451.0	451.0	447.8	449.9	449.9
10°	447.8	446.7	444.6	447.8	446.7
12.5°	442.5	441.5	440.4	443.6	442.5
15°	437.2	436.2	435.1	438.3	438.3
17.5°	430.9	429.8	428.8	433.0	433.0
20°	422.4	422.4	422.4	426.6	425.6
22.5°	413.9	413.9	415.0	419.2	418.2
25°	405.5	404.4	405.5	409.7	410.8
27.5°	394.9	395.9	397.0	401.2	402.3
30°	384.3	385.3	386.4	391.7	392.8
32.5°	371.6	373.7	375.8	382.2	382.2
35°	358.9	361.0	364.2	371.6	372.6
37.5°	345.1	347.2	351.5	359.9	362.1
40°	330.3	333.5	339.8	348.3	351.5
42.5°	315.5	319.7	327.1	336.6	340.9
45°	299.6	303.8	313.4	325.0	330.3
47.5°	282.7	288.0	299.6	314.4	318.7
50°	264.7	272.1	285.8	301.7	307.0
52.5°	246.7	255.1	272.1	289.0	294.3
55°	227.6	237.1	258.3	275.2	281.6
57.5°	208.6	219.1	243.5	261.5	267.8
60°	188.4	201.1	227.6	245.6	250.9
62.5°	168.3	183.1	211.7	229.7	234.0
65°	147.2	165.1	194.8	210.7	214.9
67.5°	127.0	148.2	177.9	189.5	189.5
70°	105.9	129.2	158.8	162.0	155.6
72.5°	84.7	111.2	137.6	126.0	120.7
75°	64.6	94.2	108.0	97.4	94.2
77.5°	48.7	76.2	76.2	69.9	67.8
80°	33.9	58.2	50.8	44.5	41.3
82.5°	22.2	32.8	26.5	21.2	18.0
85°	11.6	12.7	7.4	6.4	5.3
87.5°	4.2	2.1	1.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)