

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: P475435

Luminaire Tested: **14CZ2-39-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475435
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-L840-CD1-U
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

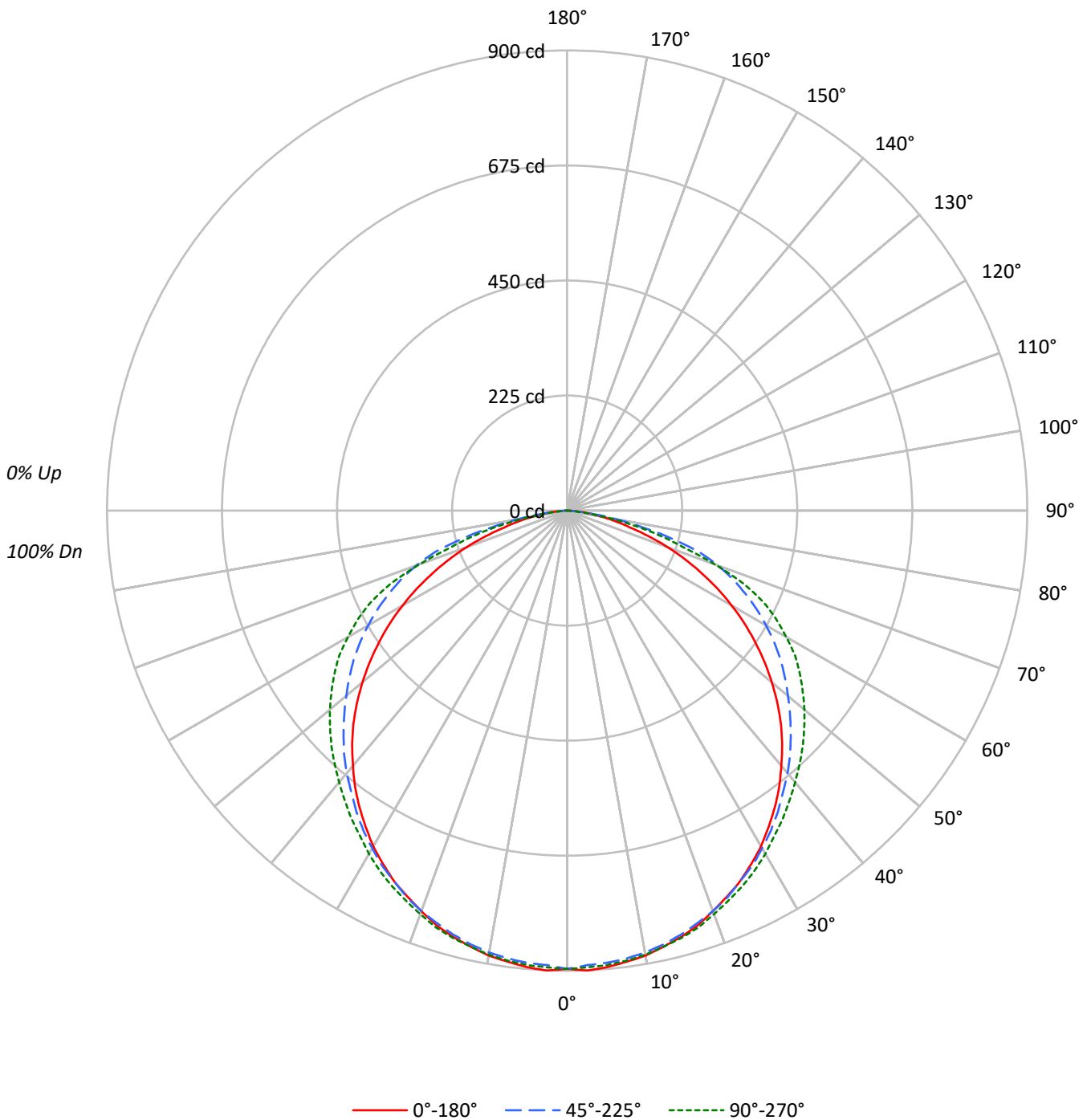
Lumens per Lamp: N/A
Luminaire Lumens: 2676.1 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
Input Voltage (V): 120
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°	2412	2412	2412
5°	2421	2398	2410
10°	2415	2398	2409
15°	2404	2392	2410
20°	2387	2387	2405
25°	2376	2376	2407
30°	2357	2370	2408
35°	2326	2361	2416
40°	2290	2356	2436
45°	2250	2353	2481
50°	2187	2362	2537
55°	2107	2392	2607
60°	2002	2418	2665
65°	1849	2448	2700
70°	1644	2466	2416
75°	1325	2216	1933
80°	1037	1554	1263
85°	710	451	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	3.2
10°-20°	243.4	9.1
20°-30°	370.6	13.8
30°-40°	451.4	16.9
40°-50°	478.9	17.9
50°-60°	452.0	16.9
60°-70°	364.9	13.6
70°-80°	198.0	7.4
80°-90°	32.0	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°	698.8	26.1
0°-40°	1150.2	43.0
0°-60°	2081.1	77.8
0°-90°	2676.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2676.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	896	894	888	894	892	85
15°	863	861	859	865	865	243
25°	800	798	800	808	811	368
35°	708	712	719	733	735	443
45°	591	600	618	641	652	455
55°	449	468	510	543	556	401
65°	290	326	384	416	424	288
75°	127	186	213	192	186	139
85°	23	25	15	12	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.3	896.3	896.3	896.3	896.3
2.5°	900.5	896.3	890.0	896.3	894.2
5°	896.3	894.2	887.9	894.2	892.1
7.5°	890.0	890.0	883.7	887.9	887.9
10°	883.7	881.7	877.5	883.7	881.7
12.5°	873.3	871.2	869.1	875.4	873.3
15°	862.9	860.8	858.7	864.9	864.9
17.5°	850.3	848.2	846.1	854.5	854.5
20°	833.6	833.6	833.6	842.0	839.9
22.5°	816.9	816.9	819.0	827.3	825.2
25°	800.2	798.1	800.2	808.5	810.6
27.5°	779.3	781.4	783.5	791.8	793.9
30°	758.4	760.5	762.6	773.0	775.1
32.5°	733.3	737.5	741.7	754.2	754.2
35°	708.2	712.4	718.7	733.3	735.4
37.5°	681.1	685.3	693.6	710.3	714.5
40°	651.8	658.1	670.6	687.4	693.6
42.5°	622.6	630.9	645.6	664.4	672.7
45°	591.3	599.6	618.4	641.4	651.8
47.5°	557.8	568.3	591.3	620.5	628.9
50°	522.3	536.9	564.1	595.4	605.9
52.5°	486.8	503.5	536.9	570.4	580.8
55°	449.2	468.0	509.8	543.2	555.7
57.5°	411.6	432.5	480.5	516.0	528.6
60°	371.9	397.0	449.2	484.7	495.1
62.5°	332.2	361.4	417.8	453.4	461.7
65°	290.4	325.9	384.4	415.8	424.1
67.5°	250.7	292.5	351.0	374.0	374.0
70°	208.9	254.9	313.4	319.7	307.1
72.5°	167.1	219.4	271.6	248.6	238.2
75°	127.4	185.9	213.1	192.2	185.9
77.5°	96.1	150.4	150.4	137.9	133.7
80°	66.9	114.9	100.3	87.7	81.5
82.5°	43.9	64.8	52.2	41.8	35.5
85°	23.0	25.1	14.6	12.5	10.4
87.5°	8.4	4.2	2.1	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)