

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: P475437

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475437
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39HE-RDP-UNV-L840-CD1-U
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2673.3 lumens
Efficiency: N/A
Efficacy: 94.1 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

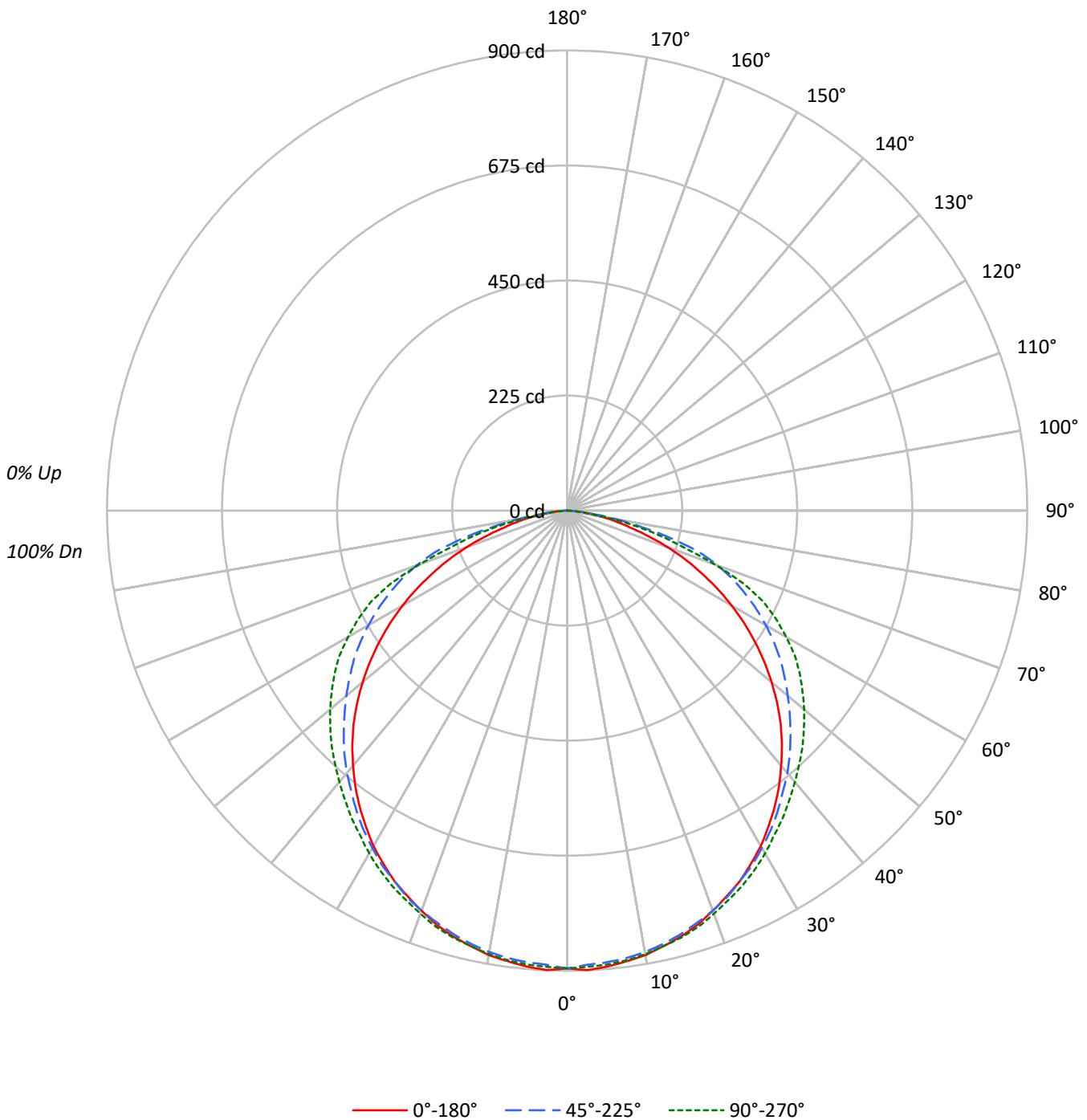
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2410	2410	2410
5°	2419	2396	2407
10°	2412	2395	2407
15°	2401	2390	2407
20°	2385	2385	2403
25°	2374	2374	2404
30°	2354	2367	2406
35°	2324	2359	2414
40°	2288	2354	2434
45°	2248	2351	2478
50°	2184	2359	2534
55°	2105	2389	2605
60°	1999	2415	2662
65°	1847	2445	2698
70°	1642	2463	2414
75°	1324	2214	1932
80°	1035	1553	1261
85°	710	451	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	3.2
10°-20°	243.1	9.1
20°-30°	370.2	13.8
30°-40°	450.9	16.9
40°-50°	478.4	17.9
50°-60°	451.5	16.9
60°-70°	364.6	13.6
70°-80°	197.8	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°	698.1	26.1
0°-40°	1149.1	43.0
0°-60°	2079.0	77.8
0°-90°	2673.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	895	893	887	893	891	85
15°	862	860	858	864	864	243
25°	799	797	799	808	810	368
35°	708	712	718	733	735	442
45°	591	599	618	641	651	455
55°	449	468	509	543	555	401
65°	290	326	384	415	424	287
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°	895.4	895.4	895.4	895.4	895.4
2.5°	899.5	895.4	889.1	895.4	893.3
5°	895.4	893.3	887.0	893.3	891.2
7.5°	889.1	889.1	882.8	887.0	887.0
10°	882.8	880.8	876.6	882.8	880.8
12.5°	872.4	870.3	868.2	874.5	872.4
15°	862.0	859.9	857.8	864.1	864.1
17.5°	849.4	847.4	845.3	853.6	853.6
20°	832.8	832.8	832.8	841.1	839.0
22.5°	816.1	816.1	818.1	826.5	824.4
25°	799.4	797.3	799.4	807.7	809.8
27.5°	778.5	780.6	782.7	791.0	793.1
30°	757.6	759.7	761.8	772.2	774.3
32.5°	732.6	736.7	740.9	753.4	753.4
35°	707.5	711.7	718.0	732.6	734.7
37.5°	680.4	684.6	692.9	709.6	713.8
40°	651.2	657.4	670.0	686.7	692.9
42.5°	622.0	630.3	644.9	663.7	672.0
45°	590.6	599.0	617.8	640.7	651.2
47.5°	557.3	567.7	590.6	619.9	628.2
50°	521.8	536.4	563.5	594.8	605.3
52.5°	486.3	503.0	536.4	569.8	580.2
55°	448.7	467.5	509.3	542.6	555.2
57.5°	411.2	432.0	480.0	515.5	528.0
60°	371.5	396.5	448.7	484.2	494.6
62.5°	331.8	361.1	417.4	452.9	461.2
65°	290.1	325.6	384.0	415.3	423.7
67.5°	250.5	292.2	350.6	373.6	373.6
70°	208.7	254.6	313.1	319.3	306.8
72.5°	167.0	219.1	271.3	248.4	237.9
75°	127.3	185.8	212.9	192.0	185.8
77.5°	96.0	150.3	150.3	137.7	133.6
80°	66.8	114.8	100.2	87.7	81.4
82.5°	43.8	64.7	52.2	41.7	35.5
85°	23.0	25.0	14.6	12.5	10.4
87.5°	8.3	4.2	2.1	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)