

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: P475419

Luminaire Tested: **14CZ2-39HE-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475419
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-L830-CD1-U
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2531.6 lumens
Efficiency: N/A
Efficacy: 89.1 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

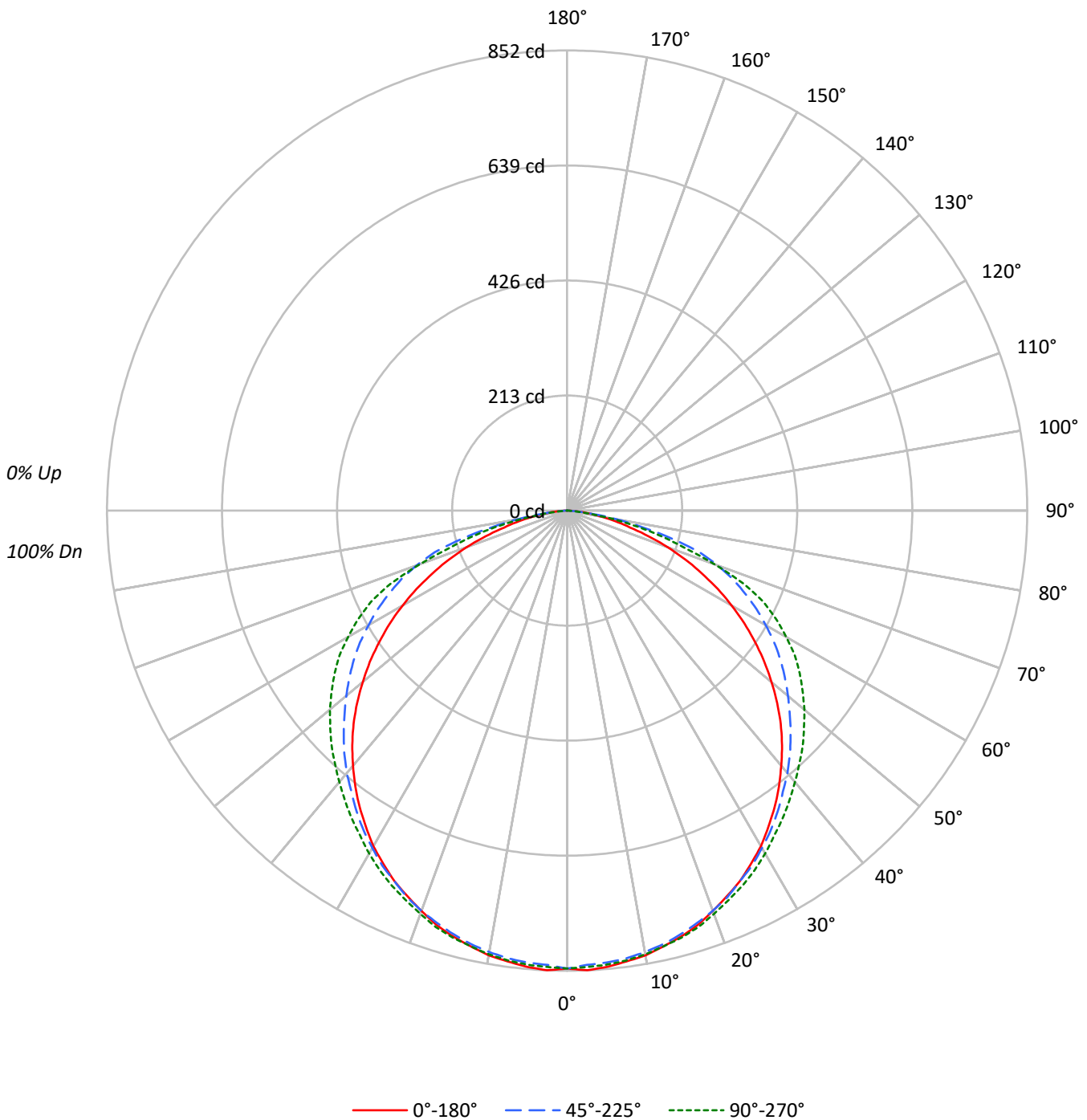
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2282	2282	2282
5°	2290	2269	2280
10°	2285	2268	2279
15°	2274	2263	2280
20°	2258	2258	2275
25°	2248	2248	2277
30°	2229	2242	2279
35°	2201	2234	2285
40°	2166	2229	2305
45°	2128	2226	2347
50°	2069	2234	2400
55°	1993	2263	2466
60°	1893	2287	2521
65°	1749	2316	2555
70°	1555	2333	2286
75°	1254	2096	1829
80°	979	1471	1195
85°	670	426	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.2
10°-20°	230.3	9.1
20°-30°	350.6	13.8
30°-40°	427.0	16.9
40°-50°	453.1	17.9
50°-60°	427.6	16.9
60°-70°	345.2	13.6
70°-80°	187.3	7.4
80°-90°	30.3	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°	661.1	26.1
0°-40°	1088.2	43.0
0°-60°	1968.8	77.8
0°-90°	2531.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	848	846	840	846	844	81
15°	816	814	812	818	818	230
25°	757	755	757	765	767	349
35°	670	674	680	694	696	419
45°	559	567	585	607	617	431
55°	425	443	482	514	526	380
65°	275	308	364	393	401	272
75°	121	176	202	182	176	132
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.9	847.9	847.9	847.9	847.9
2.5°	851.9	847.9	842.0	847.9	845.9
5°	847.9	845.9	840.0	845.9	844.0
7.5°	842.0	842.0	836.1	840.0	840.0
10°	836.1	834.1	830.1	836.1	834.1
12.5°	826.2	824.2	822.2	828.2	826.2
15°	816.3	814.3	812.3	818.3	818.3
17.5°	804.4	802.5	800.5	808.4	808.4
20°	788.6	788.6	788.6	796.5	794.6
22.5°	772.8	772.8	774.8	782.7	780.7
25°	757.0	755.0	757.0	764.9	766.9
27.5°	737.2	739.2	741.2	749.1	751.1
30°	717.5	719.4	721.4	731.3	733.3
32.5°	693.7	697.7	701.7	713.5	713.5
35°	670.0	674.0	679.9	693.7	695.7
37.5°	644.3	648.3	656.2	672.0	676.0
40°	616.7	622.6	634.5	650.3	656.2
42.5°	589.0	596.9	610.7	628.5	636.4
45°	559.3	567.3	585.0	606.8	616.7
47.5°	527.7	537.6	559.3	587.0	594.9
50°	494.1	508.0	533.7	563.3	573.2
52.5°	460.5	476.3	508.0	539.6	549.5
55°	424.9	442.7	482.3	513.9	525.7
57.5°	389.4	409.1	454.6	488.2	500.1
60°	351.8	375.5	424.9	458.5	468.4
62.5°	314.3	341.9	395.3	428.9	436.8
65°	274.7	308.3	363.7	393.3	401.2
67.5°	237.2	276.7	332.1	353.8	353.8
70°	197.6	241.1	296.5	302.4	290.5
72.5°	158.1	207.5	256.9	235.2	225.3
75°	120.6	175.9	201.6	181.8	175.9
77.5°	90.9	142.3	142.3	130.4	126.5
80°	63.2	108.7	94.9	83.0	77.1
82.5°	41.5	61.3	49.4	39.5	33.6
85°	21.7	23.7	13.8	11.9	9.9
87.5°	7.9	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)