

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: P475425

Luminaire Tested: **14CZ2-35-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475425
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-RDP-UNV-L835-CD1-U
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

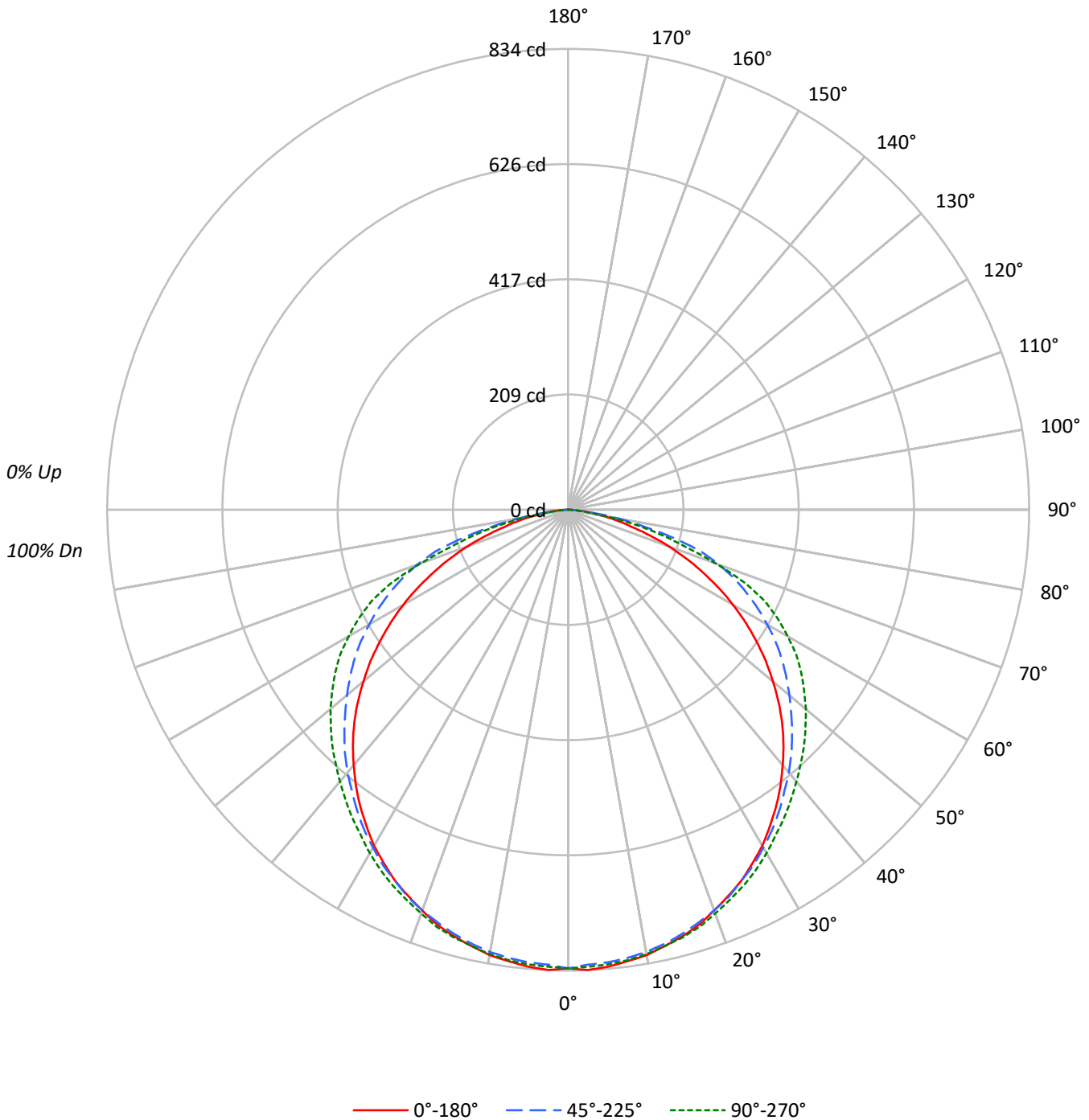
Lumens per Lamp: N/A
Luminaire Lumens: 2478.1 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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°	2234	2234	2234
5°	2242	2221	2232
10°	2236	2220	2231
15°	2226	2215	2232
20°	2210	2210	2227
25°	2200	2200	2229
30°	2182	2194	2230
35°	2155	2186	2237
40°	2120	2181	2256
45°	2084	2179	2297
50°	2025	2187	2349
55°	1952	2215	2414
60°	1854	2239	2468
65°	1712	2267	2500
70°	1522	2283	2238
75°	1227	2051	1790
80°	959	1440	1170
85°	658	417	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.2
10°-20°	225.4	9.1
20°-30°	343.2	13.8
30°-40°	418.0	16.9
40°-50°	443.5	17.9
50°-60°	418.6	16.9
60°-70°	337.9	13.6
70°-80°	183.3	7.4
80°-90°	29.7	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°	647.1	26.1
0°-40°	1065.1	43.0
0°-60°	1927.2	77.8
0°-90°	2478.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	830	828	822	828	826	79
15°	799	797	795	801	801	225
25°	741	739	741	749	751	341
35°	656	660	666	679	681	410
45°	548	555	573	594	604	422
55°	416	433	472	503	515	372
65°	269	302	356	385	393	266
75°	118	172	197	178	172	129
85°	21	23	14	12	10	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.0	830.0	830.0	830.0	830.0
2.5°	833.8	830.0	824.2	830.0	828.0
5°	830.0	828.0	822.2	828.0	826.1
7.5°	824.2	824.2	818.4	822.2	822.2
10°	818.4	816.4	812.6	818.4	816.4
12.5°	808.7	806.8	804.8	810.6	808.7
15°	799.0	797.1	795.2	801.0	801.0
17.5°	787.4	785.5	783.5	791.3	791.3
20°	771.9	771.9	771.9	779.7	777.7
22.5°	756.5	756.5	758.4	766.1	764.2
25°	741.0	739.0	741.0	748.7	750.7
27.5°	721.6	723.6	725.5	733.2	735.2
30°	702.3	704.2	706.2	715.8	717.8
32.5°	679.1	682.9	686.8	698.4	698.4
35°	655.9	659.7	665.5	679.1	681.0
37.5°	630.7	634.6	642.3	657.8	661.7
40°	603.6	609.4	621.0	636.5	642.3
42.5°	576.5	584.3	597.8	615.2	623.0
45°	547.5	555.3	572.7	593.9	603.6
47.5°	516.6	526.2	547.5	574.6	582.3
50°	483.7	497.2	522.4	551.4	561.1
52.5°	450.8	466.3	497.2	528.2	537.8
55°	416.0	433.4	472.1	503.0	514.6
57.5°	381.1	400.5	445.0	477.9	489.5
60°	344.4	367.6	416.0	448.8	458.5
62.5°	307.6	334.7	386.9	419.8	427.6
65°	268.9	301.8	356.0	385.0	392.7
67.5°	232.2	270.9	325.0	346.3	346.3
70°	193.5	236.0	290.2	296.0	284.4
72.5°	154.8	203.1	251.5	230.2	220.6
75°	118.0	172.2	197.3	178.0	172.2
77.5°	89.0	139.3	139.3	127.7	123.8
80°	61.9	106.4	92.9	81.3	75.5
82.5°	40.6	60.0	48.4	38.7	32.9
85°	21.3	23.2	13.5	11.6	9.7
87.5°	7.7	3.9	1.9	3.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)