

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: P219278

Luminaire Tested: **14AC-LD5-35-UNV-L840-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: P219278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14AC-LD5-35-UNV-L840-CD1-U
Description: ACCORD 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3735.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

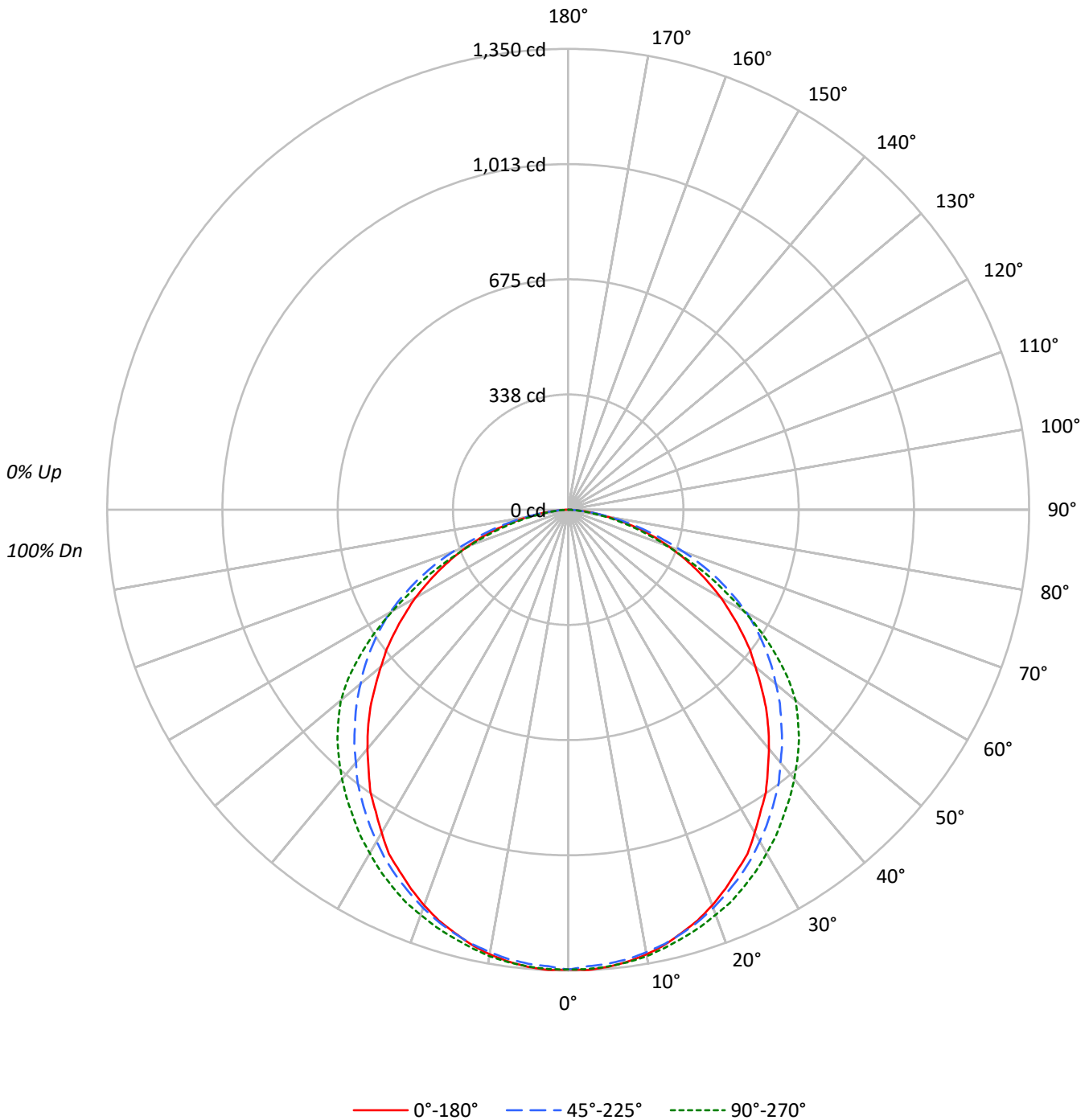
Input Watts (W): 31.48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64		73	67	63		70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	46		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3623	3579	3597
10°	3599	3542	3566
15°	3552	3498	3523
20°	3500	3444	3490
25°	3429	3385	3456
30°	3346	3316	3414
35°	3259	3247	3370
40°	3147	3163	3337
45°	3041	3085	3306
50°	2908	3007	3251
55°	2796	2928	3051
60°	2668	2818	2724
65°	2499	2601	2342
70°	2301	2262	1886
75°	2030	1844	1467
80°	1564	1281	980
85°	987	548	373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.4
10°-20°	364.0	9.7
20°-30°	549.2	14.7
30°-40°	658.5	17.6
40°-50°	683.4	18.3
50°-60°	617.0	16.5
60°-70°	449.3	12.0
70°-80°	235.7	6.3
80°-90°	50.4	1.3
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°	1040.7	27.9
0°-40°	1699.2	45.5
0°-60°	2999.6	80.3
0°-90°	3735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1344	1342	1335	1344	1343	128
15°	1284	1284	1285	1300	1299	362
25°	1168	1174	1187	1213	1218	539
35°	1009	1019	1050	1089	1098	629
45°	819	837	882	938	956	631
55°	617	639	703	745	743	552
65°	414	438	486	464	447	409
75°	214	244	236	204	194	224
85°	41	49	36	28	26	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.9	1346.9	1346.9	1346.9	1346.9
2.5°	1349.6	1346.0	1338.8	1347.8	1346.9
5°	1344.2	1341.5	1335.3	1344.2	1343.3
7.5°	1335.3	1333.5	1328.1	1337.9	1337.0
10°	1322.8	1320.1	1316.5	1327.2	1328.1
12.5°	1305.8	1304.9	1303.1	1314.7	1313.8
15°	1283.5	1283.5	1285.2	1299.5	1298.6
17.5°	1261.1	1261.1	1265.6	1281.7	1282.6
20°	1233.4	1235.2	1241.5	1261.1	1262.9
22.5°	1202.2	1204.0	1214.7	1239.7	1244.2
25°	1168.2	1174.5	1187.0	1212.9	1218.3
27.5°	1137.0	1137.9	1156.6	1185.2	1192.4
30°	1092.3	1104.8	1121.8	1154.8	1162.0
32.5°	1048.6	1061.1	1087.0	1122.7	1132.5
35°	1009.3	1019.1	1049.5	1088.8	1097.7
37.5°	960.1	976.2	1011.9	1053.0	1065.5
40°	914.6	928.9	967.3	1013.7	1029.8
42.5°	867.3	883.3	927.1	977.1	993.2
45°	819.0	836.9	882.4	937.8	955.7
47.5°	766.3	788.7	840.5	896.7	912.8
50°	715.4	738.6	794.0	853.0	869.0
52.5°	669.0	689.5	750.2	804.7	811.9
55°	617.2	638.6	702.9	744.9	743.1
57.5°	565.4	589.5	653.8	679.7	672.5
60°	517.1	539.5	603.8	609.1	593.9
62.5°	463.5	489.4	543.9	535.9	517.1
65°	413.5	438.5	485.9	463.5	446.6
67.5°	362.6	389.4	423.4	390.3	370.7
70°	312.6	344.8	357.3	321.5	305.5
72.5°	261.7	295.6	294.7	260.8	247.4
75°	213.5	243.8	235.8	203.6	193.8
77.5°	162.6	192.9	177.7	153.6	144.7
80°	115.2	143.8	124.1	105.4	99.1
82.5°	78.6	95.6	77.7	61.6	58.9
85°	41.1	49.1	35.7	27.7	25.9
87.5°	15.2	14.3	12.5	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)